The background features a dark blue gradient with several glowing blue wireframe cubes scattered across it. These cubes have a complex internal structure of lines and small blue dots, resembling a network or a molecular model. They are positioned at various angles and depths, creating a sense of a three-dimensional space.

# *User interface documentation*

Domail server

Nuncio j.s.a.

## Contents

<b>1 Domail</b>	<b>1</b>
1.1 Basic functionalities . . . . .	1
<b>2 Basic screens of Domail UI</b>	<b>2</b>
2.1 Login page . . . . .	2
2.2 Header . . . . .	2
2.3 Sidebar . . . . .	3
<b>3 Dashboard</b>	<b>4</b>
3.1 List items for the set period (days/months) . . . . .	4
3.1.1 Communications . . . . .	5
3.1.2 Errors . . . . .	6
3.1.3 Scenarios . . . . .	6
3.2 List of communications for the channels . . . . .	7
3.3 List of errors . . . . .	9
3.4 List of scenarios . . . . .	12
<b>4 Communications</b>	<b>15</b>
4.1 Communication states . . . . .	17
4.2 Filter . . . . .	18
4.2.1 Header . . . . .	18
4.2.2 Address . . . . .	19
4.2.3 Log . . . . .	19
4.2.4 Tag . . . . .	19
4.3 Menu action - Cancel . . . . .	19
4.4 Menu action - Resend . . . . .	19
4.5 Menu action - Reprocess . . . . .	21
4.6 Menu action - Export . . . . .	21
<b>5 Campaigns</b>	<b>23</b>
5.1 Add campaign . . . . .	23
5.2 Campaign detail . . . . .	23
5.2.1 General data . . . . .	24
5.2.2 Source data . . . . .	24
5.2.3 History . . . . .	26
<b>6 Statistics</b>	<b>27</b>
6.1 Filter . . . . .	27
6.2 Group by . . . . .	27
6.2.1 Group by runs . . . . .	28
6.2.2 Group by scenarios . . . . .	29
6.2.3 Group by groups . . . . .	31
6.2.4 Group by tags . . . . .	32
6.2.5 Group by addresses . . . . .	33

<b>7 Configuration</b>	<b>35</b>
7.1 Scenarios . . . . .	35
7.1.1 Add new scenario . . . . .	36
7.1.2 Scenarios - edit . . . . .	37
7.1.2.1 Conditions . . . . .	37
7.2 Templates . . . . .	38
7.2.1 Create new template . . . . .	39
7.2.2 Edit . . . . .	41
7.2.2.1 Template data . . . . .	41
7.2.2.2 Design . . . . .	44
7.2.2.3 Attachments . . . . .	45
7.2.2.4 Images . . . . .	46
7.3 Scripts . . . . .	46
7.3.1 Constants . . . . .	47
7.3.2 Create new script . . . . .	47
7.4 Gallery . . . . .	50
7.4.1 Images . . . . .	50
7.4.2 Attachments . . . . .	50
<b>8 Administration</b>	<b>51</b>
8.1 Users . . . . .	51
8.1.1 User detail . . . . .	51
8.2 Roles . . . . .	52
8.2.1 New Role . . . . .	52
8.2.2 Role detail . . . . .	53
8.3 Monitoring . . . . .	54
8.3.1 Services . . . . .	54
8.3.2 Queues . . . . .	54
8.4 Blacklist . . . . .	55
8.5 Whitelist . . . . .	55
8.5.1 Whitelist data item . . . . .	56
8.6 Settings . . . . .	57
8.6.1 Main . . . . .	57
8.6.2 Debug . . . . .	59
8.6.3 SMTP . . . . .	60
8.6.4 DKIM . . . . .	61
8.7 Certificates . . . . .	62
8.7.1 Domail certificates . . . . .	62
8.7.2 DKIM . . . . .	63
<b>Alphabetical Index</b>	<b>65</b>

## List of Figures

1	Login page . . . . .	2
2	Header . . . . .	2
3	Sidebar . . . . .	3
4	Dashboard screen - communication for the last months . . . . .	4
5	Dashboard screen - communication for the last months . . . . .	5
6	Dashboard - communications for the last days . . . . .	5
7	Dashboard screen - errors for the last months . . . . .	6
8	Dashboard - errors for the last days . . . . .	6
9	Dashboard screen - scenarios for the last months . . . . .	7
10	Dashboard - scenarios for the last days . . . . .	7
11	Dashboard screen - communications by channels . . . . .	8
12	Dashboard communications by channels - settings button . . . . .	8
13	Dashboard communications by channels - preselected all types of channel in filter . . . . .	9
14	Dashboard communications by channels - selected 3 types of channel in filter . . . . .	9
15	Dashboard communications by channels - selected 3 types of channel in filter with the possibility of adding a new type . . . . .	9
16	Dashboard screen - communications by errors . . . . .	10
17	Dashboard communications by errors - preselected all types of errors in filter . . . . .	11
18	Dashboard communications by errors - selected 4 types of errors in filter . . . . .	11
19	Dashboard communications by errors - selected 4 types of errors in filter with the possibility of adding a new type . . . . .	12
20	Dashboard screen - communications by scenarios . . . . .	12
21	Dashboard communications by scenarios - settings button . . . . .	13
22	Dashboard communications by scenarios - preselected all types of scenarios in filter . . . . .	13
23	Dashboard communications by scenarios - selected 3 types of scenarios in filter . . . . .	13
24	Dashboard communications by scenarios - selected 4 types of errors in filter with the possibility of adding a new type . . . . .	14
25	Communications screen . . . . .	15
26	Communications screen - extend detail info about selected communication . . . . .	15
27	Communications screen - button Refresh . . . . .	16
28	Communications screen with selected rows . . . . .	16
29	Communications screen - Action button with a list of actions in the menu . . . . .	16
30	Communications screen with tab filter . . . . .	18
31	Communications screen - Header tab in filter . . . . .	19
32	Communications screen - Address tab in filter . . . . .	19
33	Communications screen - Log tab in filter . . . . .	19
34	Communications screen - Tag tab in filter . . . . .	19
35	Communications - action resend - before . . . . .	20
36	Communications - action resend - after . . . . .	20
37	Communications - action resend - result . . . . .	20
38	Communications - action export . . . . .	21
39	Communications - action export - CSV file . . . . .	21
40	Communications - action export - XML file . . . . .	22
41	Campaigns screen . . . . .	23

---

42	Add campaign . . . . .	23
43	Detail of new campaign - general data . . . . .	24
44	Detail of new campaign - source data 1 . . . . .	24
45	Detail of new campaign - source data 2 . . . . .	25
46	Detail of new campaign - source data 3 . . . . .	26
47	Detail of new campaign - history . . . . .	26
48	Statistics screen - filter . . . . .	27
49	Statistics - Group by runs . . . . .	28
50	Statistics - Overview according to amounts. . . . .	28
51	Statistics - Communication detail in time (day). . . . .	29
52	Statistics screen - Overview of system statuses/Overview of delivery statuses. . . . .	29
53	Statistics screen - tables. . . . .	29
54	Statistics - Group by scenarios . . . . .	30
55	Statistics - Group by scenarios - Overview according to amounts. . . . .	30
56	Statistics - Group by scenarios - Communication detail in time. . . . .	31
57	Statistics - Group by groups . . . . .	31
58	Statistics - Group by groups - Overview according to amounts. . . . .	32
59	Statistics - Group by groups - Communication detail in time. . . . .	32
60	Statistics - Group by tags . . . . .	32
61	Statistics - Group by tags - Overview according to amounts. . . . .	33
62	Statistics - Group by tags - Communication detail in time. . . . .	33
63	Statistics - Group by addresses . . . . .	33
64	Statistics - Group by addresses - Overview according to amounts. . . . .	34
65	Statistics - Group by addresses - Communication detail in time. . . . .	34
66	Scenarios screen. . . . .	35
67	Scenarios screen - filter. . . . .	36
68	Scenarios screen - add new. . . . .	36
69	Scenarios screen - add new - required fields. . . . .	37
70	Scenarios screen - created of new scenario. . . . .	37
71	Scenarios screen - created of new scenario - conditions. . . . .	38
72	Scenarios screen - created of new scenario - conditions - edit. . . . .	38
73	Template screen . . . . .	39
74	Template - filter . . . . .	39
75	Template - add new . . . . .	40
76	Template - general data . . . . .	40
77	Template - template data . . . . .	41
78	Template - CSV template data - parsing . . . . .	42
79	Template - CSV template data - loaded . . . . .	42
80	Template - JSON template data - loaded . . . . .	43
81	Email params in template data . . . . .	43
82	Empty design of template . . . . .	44
83	Template - design - use created parameter in template . . . . .	44
84	Template - design - used paremeters in template . . . . .	45
85	Attachments . . . . .	45
86	Attachments - loaded attachment . . . . .	46
87	Images . . . . .	46
88	Script - list . . . . .	47
89	Script - constants . . . . .	47

90	Script - add new . . . . .	48
91	Script - add new - script header . . . . .	48
92	Script - add new - script . . . . .	49
93	Images . . . . .	50
94	Attachments . . . . .	50
95	Users . . . . .	51
96	User detail . . . . .	51
97	Roles . . . . .	52
98	Roles - New role . . . . .	52
99	Roles - New role - special access rules . . . . .	53
100	Roles detail . . . . .	53
101	Monitoring - services . . . . .	54
102	Monitoring - queues . . . . .	55
103	Blacklist . . . . .	55
104	Whitelist . . . . .	56
105	Whitelist - on/off in settings . . . . .	56
106	Whitelist data item . . . . .	56
107	Settings . . . . .	57
108	Settings . . . . .	57
109	Settings - Main 1 . . . . .	58
110	Settings - Main 2 . . . . .	58
111	Settings - Main 3 . . . . .	59
112	Settings - Main 4 . . . . .	59
113	Settings - Debug . . . . .	60
114	Settings - SMTP 1 . . . . .	61
115	Settings - SMTP 2 . . . . .	61
116	Settings - DKIM . . . . .	62
117	Certificates - Domail certificates . . . . .	62
118	Certificates - Domail certificates - wizzard . . . . .	63
119	Certificates - DKIM . . . . .	63
120	Certificates - DKIM - wizzard . . . . .	64

# 1 Domail

This document provides an overview of the Domail system, a powerful tool for handling mass electronic communication. It excels in bulk processing of communications and offers the following key features:

- Control over outgoing communications.
- Simplified tracking of technical details in applications sending communications.
- Centralized sending of communications.
- Automated tools for outbound message composition, processing, and delivery tracking, along with monitoring support.
- Efficient processing of large batches of communications.

## 1.1 Basic functionalities

- Entering a new communication through two interfaces: the SMTP interface, allowing seamless integration with REST applications, and the SOAP interfaces, which assemble communications from input data.
- Communication processing based on identification data, with a control script and parameters for message composition selected for each message.
- Sending compiled communications to the server, allowing priority control and the option to schedule sending at a specified time.
- Archiving sent communications with a designated retention period.
- Maintaining a blacklist of addresses that repeatedly fail to receive messages, ensuring that subsequent communication is rejected for these addresses.
- Tracking the status of sending, delivery, read, and error handling.

## 2 Basic screens of Domail UI

This section describes the basic screens of the Domail user interface.

### 2.1 Login page

The Login page, shown in the figure, allows users to enter their username and password. The 'Login' button is used to access the Domail UI.

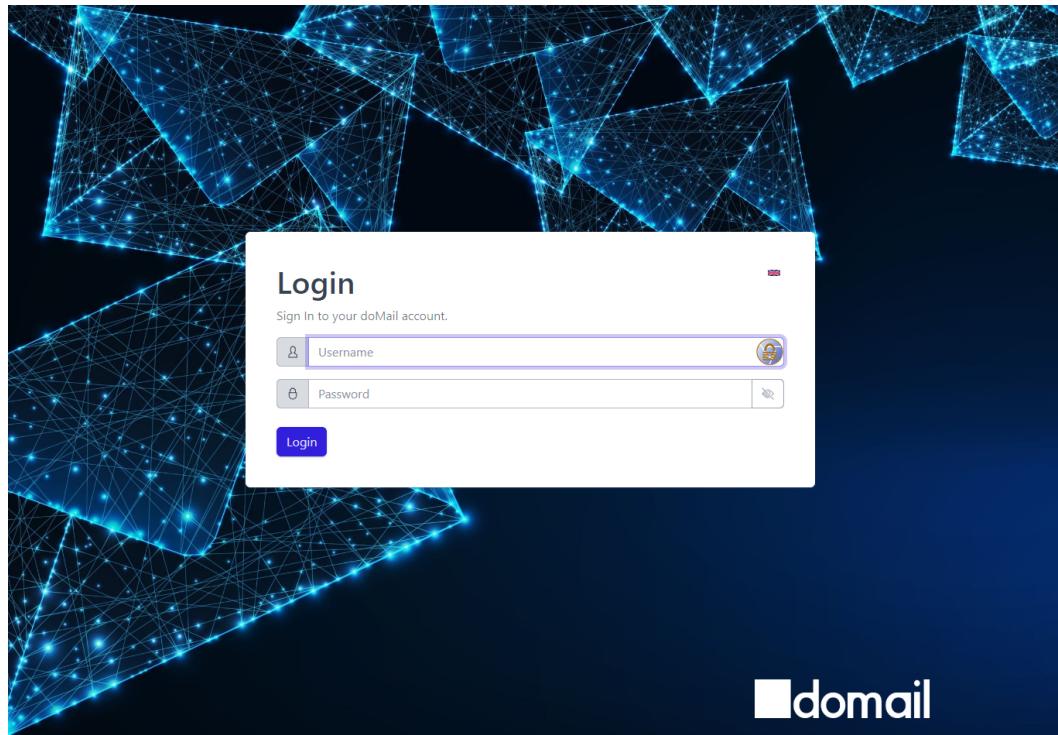


Figure 1: Login page

### 2.2 Header

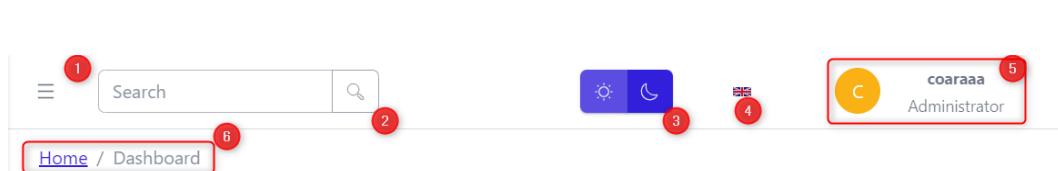


Figure 2: Header

The figure 2 presents the menu header, featuring the following elements:

1. A visibility sidebar toggle for show/hide/auto-hide options.

2. A search panel for easy content navigation.
3. A switch for toggling between light and dark mode UI.
4. A language switcher for choosing the desired language.
5. Information on the currently logged-in user.
6. Information about the current page being viewed.

### 2.3 Sidebar

The figure 3 illustrates the Domail sidebar, which includes:

1. Menu items for quick navigation to various sections and functionalities.
2. A switch for toggling between normal (3a) and minimal (3b) modes, optimizing screen space.

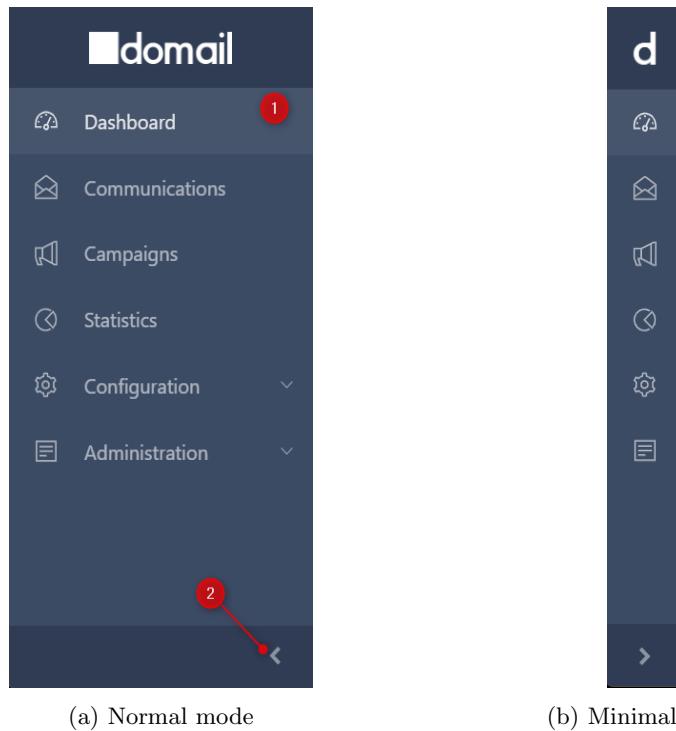


Figure 3: Sidebar

### 3 Dashboard

The following picture 4 displays Dashboard, which has multiple modes.

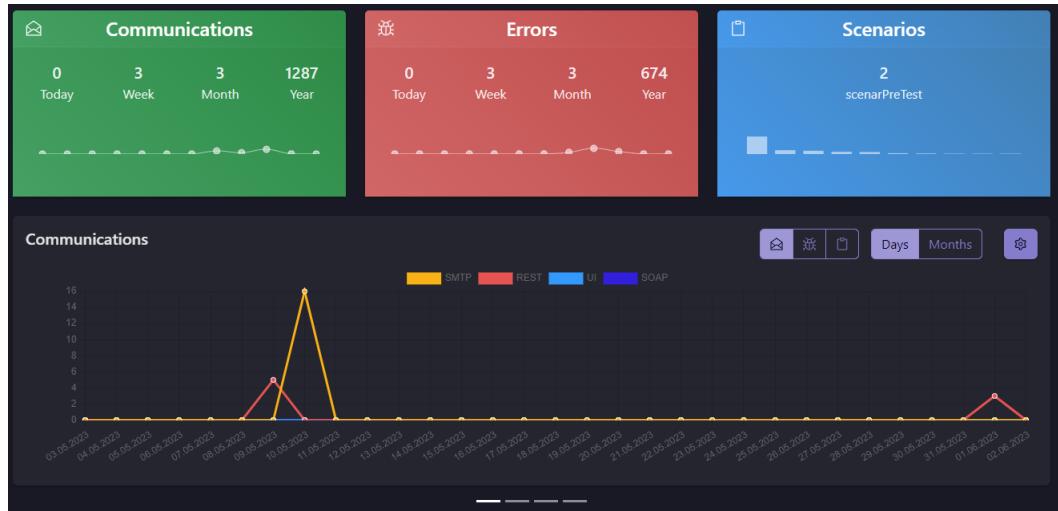


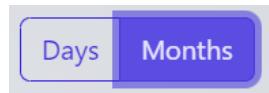
Figure 4: Dashboard screen - communication for the last months

Dashboard has the following modes:

1. List items for the set period (days/months)
2. List of communications for the channels
  - (a) per **days** in last **7 days**
  - (b) per **current day of week** in last **2 months**
  - (c) per **current week of month** in last **6 months**
  - (d) per **current month** in last **6 years**
3. List of errors
  - (a) per **days** in last **7 days**
  - (b) per **current week of month** in last **6 months**
  - (c) per **current month** in last **6 years**
4. List of scenarios
  - (a) per **days** in last **7 days**
  - (b) per **current week of month** in last **6 months**
  - (c) per **current month** in last **6 years**

toto treba  
pripsat  
zjednodusit  
popis dash-  
boardu

#### 3.1 List items for the set period (days/months)



The period setting can be configured for the last days or last months.

Days will display the communications of the last month.

Months will display the communications of the last 12 months.



In addition to the list of communications (labeled as number 1 in the figure), the graph can also show the list of errors (labeled as number 2) or the list of scenarios (labeled as number 3) by switching between them.

### 3.1.1 Communications

The following picture 5 shows the list of communications for the set period (Months).

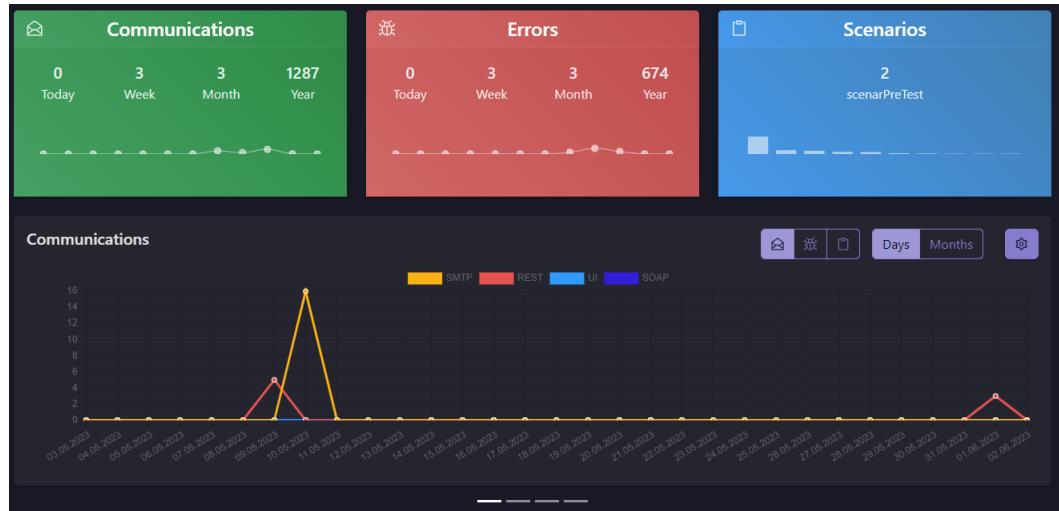


Figure 5: Dashboard screen - communication for the last months

The following picture 6 shows the list of communications for the set period (Days)



Figure 6: Dashboard - communications for the last days

### 3.1.2 Errors

The following picture 7 shows the list of errors for the set period (Months)

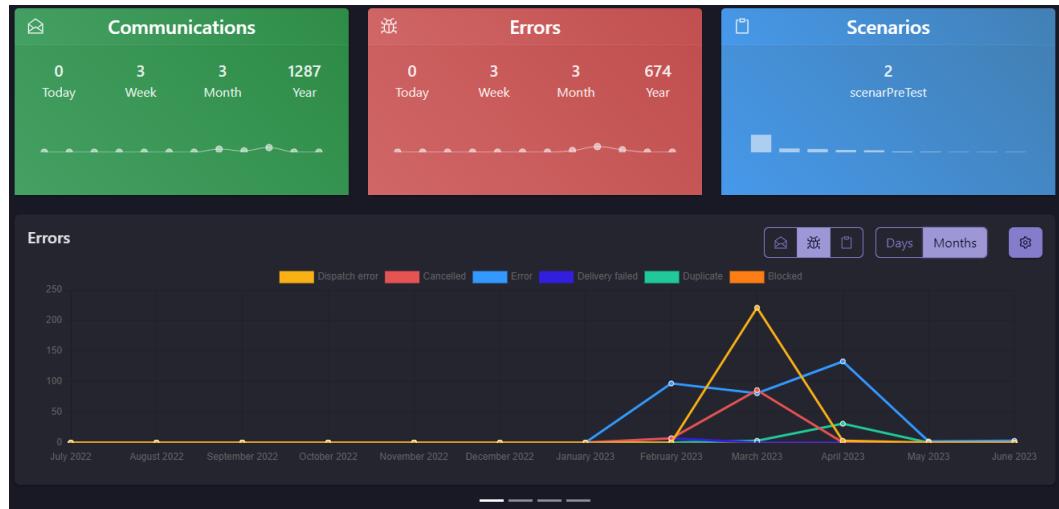


Figure 7: Dashboard screen - errors for the last months

The following picture 8 shows the list of errors for the set period (Days)



Figure 8: Dashboard - errors for the last days

### 3.1.3 Scenarios

The following picture 9 shows the list of scenarios for the set period (Months)

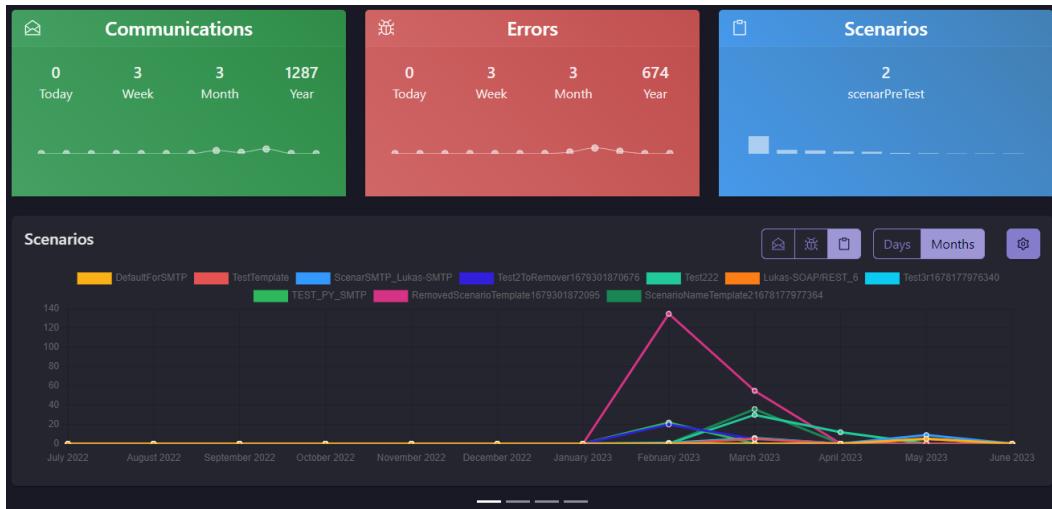


Figure 9: Dashboard screen - scenarios for the last months

The following picture 10 shows the list of errors for the set period (Days)

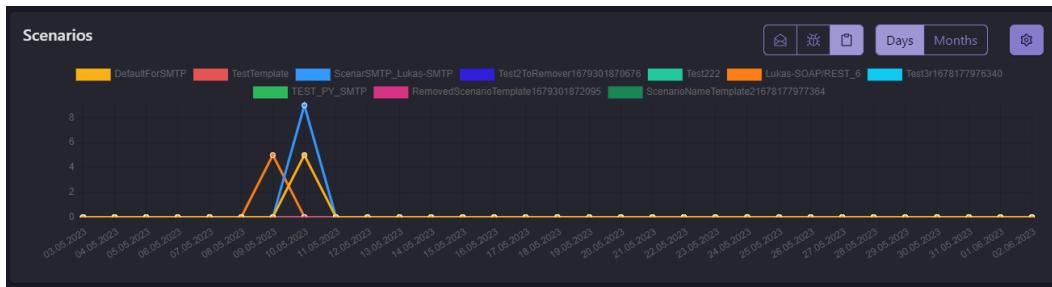


Figure 10: Dashboard - scenarios for the last days

### 3.2 List of communications for the channels

The screen 11 shows data by channel type of the current month for the last 6 years.



Figure 11: Dashboard screen - communications by channels



Figure 12: Dashboard communications by channels - settings button

The graph on the screen 11 allows you to change the settings (12): Counts :

1. Average counts
  2. Total counts

Period:

- ### 1. Periodics period

## 2 Nearest neighbor

- ### Setting the period

1 today per day

- 3 Friday per current day in last 7 days

- 3-3 week - per current week of month

- <sup>4</sup> I am grateful to the editor and two anonymous referees for their useful comments.

Filter contains preselected all types of channels (13).

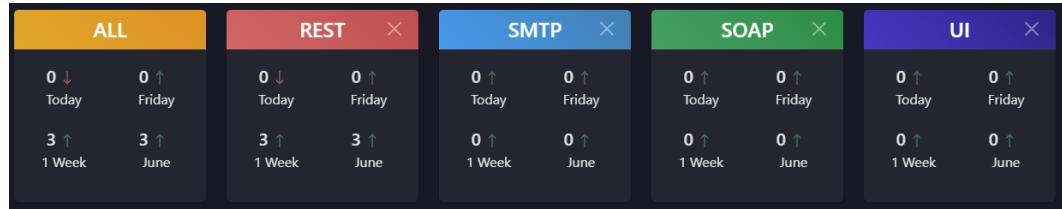


Figure 13: Dashboard communications by channels - preselected all types of channel in filter

Filter on the picture 14 contains selected the 3 types of channels. The last item on the picture 14 is the possibility to add missing channel types.

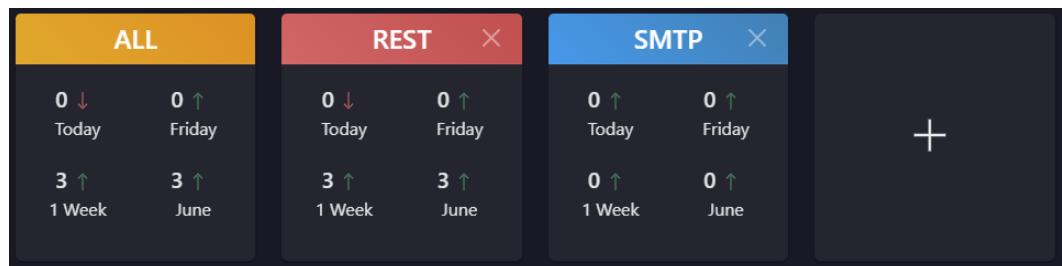


Figure 14: Dashboard communications by channels - selected 3 types of channel in filter

After mouseover, the last item is changed (15).

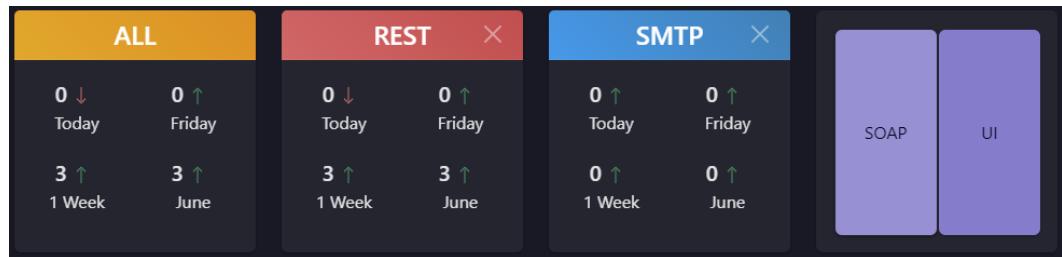


Figure 15: Dashboard communications by channels - selected 3 types of channel in filter with the possibility of adding a new type

### 3.3 List of errors

The screen 16 shows data by error type of the current month for the last 6 years.



Figure 16: Dashboard screen - communications by errors

The graph on the screen 16 allows you to change the settings (12):  
Counts :

1. Average counts
2. Total counts

Period:

1. Periodics period
2. Nearest period

Setting the period:

1. today - per **days** in last 7 days
2. 3 week - per **current week of month** in last 6 months
3. June - per **current month** in last 6 years

Filter on the picture 17 contains preselected all types of errors .

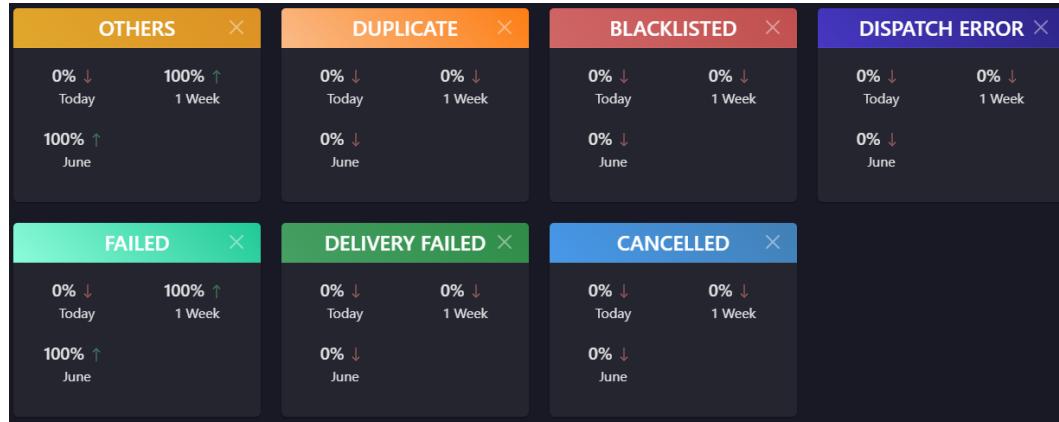


Figure 17: Dashboard communications by errors - preselected all types of errors in filter

Filter on the picture 18 contains selected the 4 types of errors. The last item on the picture 18 is the possibility to add missing error types.

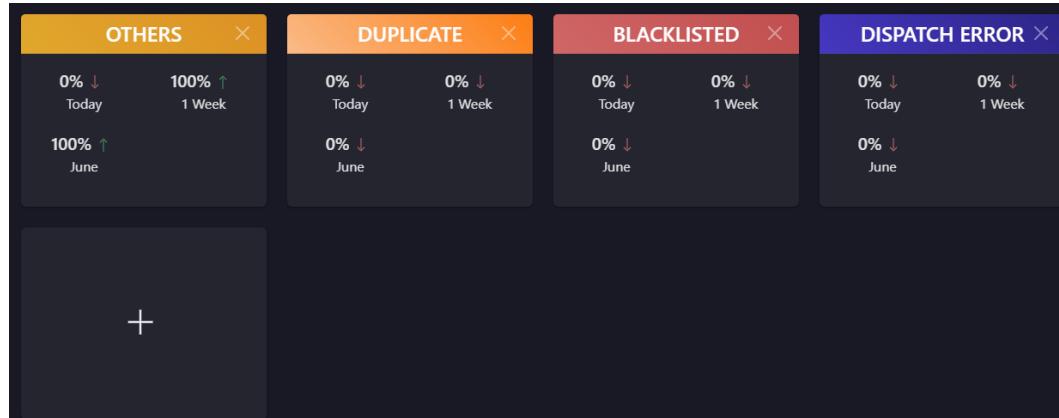


Figure 18: Dashboard communications by errors - selected 4 types of errors in filter

After mouseover, the last item is changed (19).

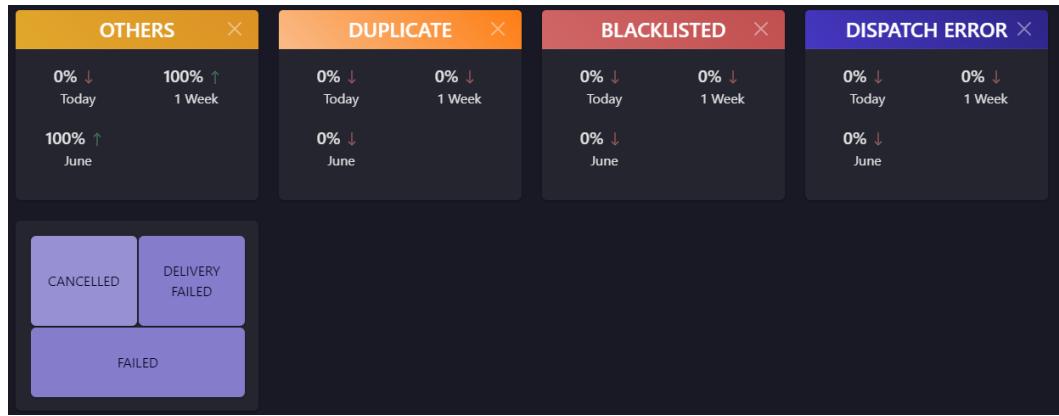


Figure 19: Dashboard communications by errors - selected 4 types of errors in filter with the possibility of adding a new type

### 3.4 List of scenarios

The screen 20 shows data by scenarios.

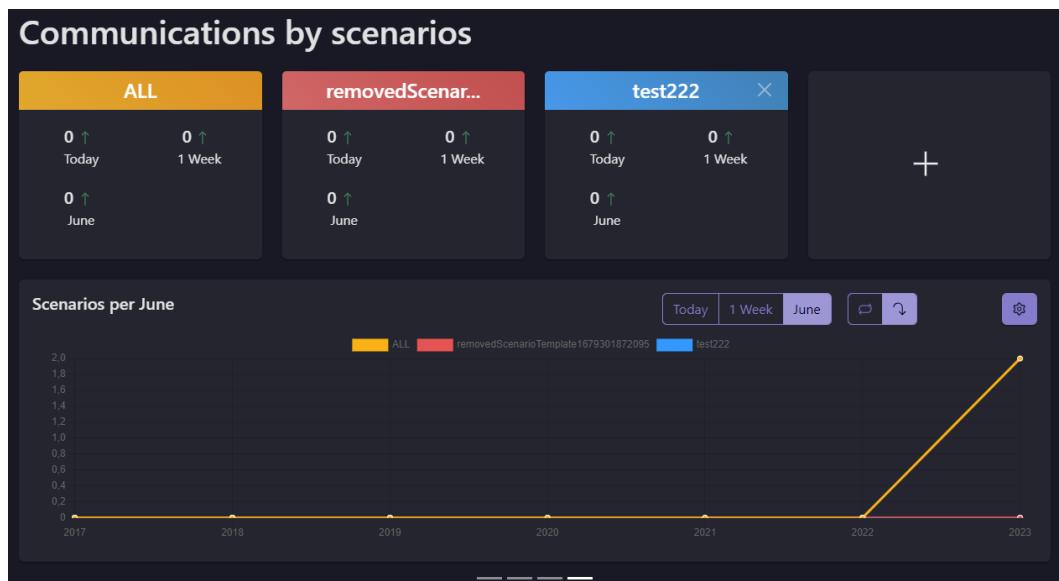


Figure 20: Dashboard screen - communications by scenarios

The graph on the screen 20 allows you to change the settings (21):  
Periods:

1. Periodics period
2. Nearest period

Settings periode:

1. today - per **days** in last 7 days
2. 3 week - per **current week of month** in last 6 months
3. June - per **current month** in last 6 years



Figure 21: Dashboard communications by scenarios - settings button

Filter on the picture 22 contains preselected all types of scenarios.

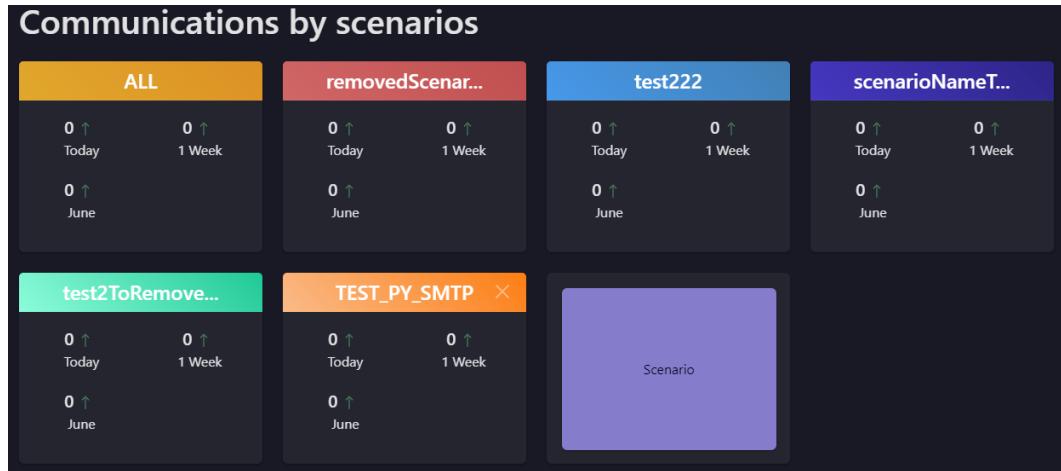


Figure 22: Dashboard communications by scenarios - preselected all types of scenarios in filter

Filter on the picture 23 contains selected the 3 types of scenarios. The last item on the picture 23 is the possibility to add missing scenarios.

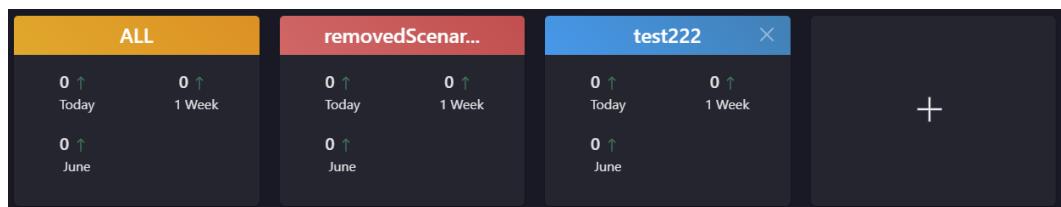


Figure 23: Dashboard communications by scenarios - selected 3 types of scenarios in filter

After mouseover, the last item is changed (24).

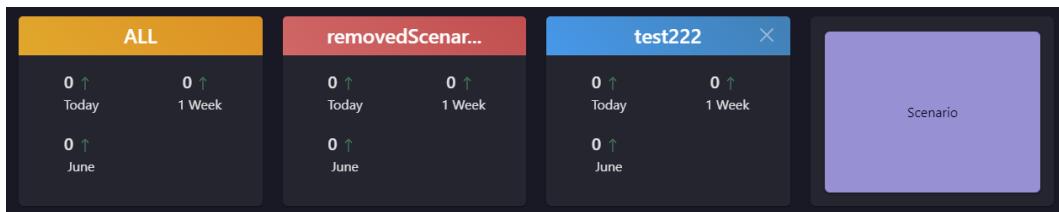


Figure 24: Dashboard communications by scenarios - selected 4 types of errors in filter with the possibility of adding a new type

## 4 Communications

The screen 25 shows all communications.

The screenshot shows the 'Communications' screen in the Domail user interface. The left sidebar includes links for Dashboard, Communications (selected), Campaigns, Statistics, Configuration, and Administration. The main area has a 'Communications' title and a 'Filter' input field. Below is a table with the following data:

	Id	Address	Processing	Delivery	Scenario	Group	Category	Send time
<input type="checkbox"/>	1287	lukas.vanek+domain-test-103320@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:33:21
<input type="checkbox"/>	1286	lukas.vanek+domain-test-103320@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:33:20
<input type="checkbox"/>	1285	lukas.vanek+domain-test-103320@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:33:20
<input type="checkbox"/>	1284	lukas.vanek+domain-test-103111@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:31:12
<input type="checkbox"/>	1283	lukas.vanek+domain-test-103111@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:31:12
<input type="checkbox"/>	1282	lukas.vanek+domain-test-103111@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:31:12
<input type="checkbox"/>	1281	lukas.vanek+domain-test-102934@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:29:34
<input type="checkbox"/>	1280	lukas.vanek+domain-test-102934@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:29:34
<input type="checkbox"/>	1279	lukas.vanek+domain-test-102934@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:29:34
<input type="checkbox"/>	1278	lukas.vanek+domain-test-102436@dominan.sk			DefaultForSMTP			10.05.2023 08:24:38
<input type="checkbox"/>	1277	lukas.vanek+domain-test-102436@dominan.sk			DefaultForSMTP			10.05.2023 08:24:38
<input type="checkbox"/>	1276	lukas.vanek+domain-test-102436@dominan.sk			DefaultForSMTP			10.05.2023 08:24:38
<input type="checkbox"/>	1275	lukas.vanek+domain-test-102436@dominan.sk			DefaultForSMTP			10.05.2023 08:24:37

Figure 25: Communications screen

The table allows sorting based on column, performing group actions on individual communications, and expanding information about communications (as shown in 26).

The screenshot shows the 'Communications' screen with a selected row (Id 1287). The expanded details are as follows:

- Addresses:** lukas.vanek+domain-test-103320@dominan.sk
- Channel:** SMTP
- Instance:** NONE
- Receive time:** 10.05.2023 08:33:21
- Processed time:** 10.05.2023 08:33:21

Below the details, the table continues with the same data as Figure 25.

Figure 26: Communications screen - extend detail info about selected communication

The "Refresh" button (27) is used to update the currently loaded table.



Figure 27: Communications screen - button Refresh

In the next image (28), you can see the option to select and perform more actions on communications.

	Id	Address	Processing	Delivery	Scenario	Group	Category	
<input checked="" type="checkbox"/>	1287	lukas.vanek+domail-test-103320@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:33:21
<input checked="" type="checkbox"/>	1286	lukas.vanek+domail-test-103320@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:33:20
<input checked="" type="checkbox"/>	1285	lukas.vanek+domail-test-103320@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:33:20
<input checked="" type="checkbox"/>	1284	lukas.vanek+domail-test-103111@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:31:12
<input checked="" type="checkbox"/>	1283	lukas.vanek+domail-test-103111@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:31:12
<input checked="" type="checkbox"/>	1282	lukas.vanek+domail-test-103111@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:31:12
<input checked="" type="checkbox"/>	1281	lukas.vanek+domail-test-102934@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:29:34
<input checked="" type="checkbox"/>	1280	lukas.vanek+domail-test-102934@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:29:34

Figure 28: Communications screen with selected rows

The following menu in image 29 offers several actions for grouping communications in the table.

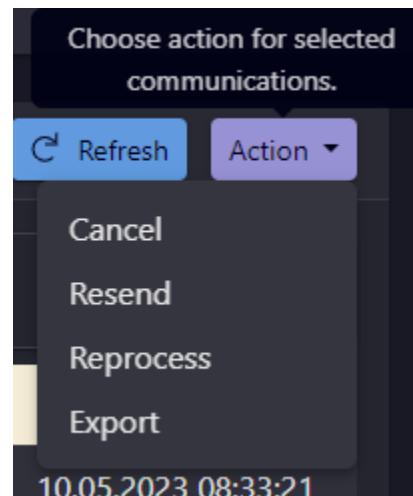


Figure 29: Communications screen - Action button with a list of actions in the menu

Actions for group selection:

1. cancel
2. resend

3. reprocess
4. export

#### 4.1 Communication states

The Communication states are:

- 2 - RECEIVED
- 3 - COMPLETED
- 4 - FAILED
- 6 - DUPLICATE
- 7 - COAR ARCHIVED
- 8 - PROCESSING
- 9 - BLACKLISTED
- 10 - DISPATCHING
- 11 - DISPATCHED
- 12 - DISPATCH ERROR
- 13 - CANCELED
- 15 - DELIVERY FAILED
- 16 - DELIVERY NONE
- 17 - DELIVERY UNKNOWN
- 18 - DELIVERY CONFIRMED
- 20 - DELIVERY AMBIGUOUS
- 21 - ARCHIVING
- 22 - COAR ARCH FAILED

komunikacne  
stavy treba  
rozdelit  
minimalne  
popisat  
processing  
a delivery  
stavy a dat  
tam spravne  
nazvy stavov  
a nie kon-  
stanty

## 4.2 Filter

The screenshot shows the 'Communications' screen in the Domail user interface. At the top, there is a 'Filter' section with tabs for 'Header', 'Address', 'Log', and 'Tag'. Below the tabs is a table with columns: Id, Address, Processing, Delivery, Scenario, Group, Category, and Send time. The 'Header' tab is selected. The table contains six rows of data, each representing a communication entry with details like ID, address, scenario, and send time.

	Id	Address	Processing	Delivery	Scenario	Group	Category	Send time
<input type="checkbox"/>	1287	lukas.vanek+domail-test-103320@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:33:21
<input type="checkbox"/>	1286	lukas.vanek+domail-test-103320@dominan.sk			ScenarSMTP_Lukas SMTP			10.05.2023 08:33:20
<input type="checkbox"/>	1285	lukas.vanek+domail-test-103320@dominan.sk			ScenarSMTP_Lukas SMTP			10.05.2023 08:33:20
<input type="checkbox"/>	1284	lukas.vanek+domail-test-103111@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:31:12
<input type="checkbox"/>	1283	lukas.vanek+domail-test-103111@dominan.sk			ScenarSMTP_Lukas-SMTP			10.05.2023 08:31:12
<input type="checkbox"/>	1282	lukas.vanek+domail-test-103111@dominan.sk			ScenarSMTP_Lukas SMTP			10.05.2023 08:31:12

Figure 30: Communications screen with tab filter

Filtering of loaded communications is divided into four parts:

1. Header
2. Address
3. Log
4. Tag

### 4.2.1 Header

The filter allows you to enter specific communication ID, channel, status, or external ID or system ID. It also enables you to filter by the date of dispatch (from - to).

This screenshot shows the 'Header' tab of the communications filter. It contains several dropdown menus and input fields:

- Id:** dropdown menu.
- External ID:** dropdown menu.
- Channel:** dropdown menu.
- Scenario:** dropdown menu.
- Group:** dropdown menu.
- Category:** dropdown menu.
- Operation:** dropdown menu.
- System ID:** dropdown menu.
- Instance:** dropdown menu.
- Status:** dropdown menu.
- Send time:** dropdown menu.
- From:** input field.
- To:** input field.
- Date Range:** buttons for 'Today', 'Last two days', and 'Last week'.

Figure 31: Communications screen - Header tab in filter

#### 4.2.2 Address

The filter allows you to enter the address, name, and state.

This screenshot shows the 'Address' tab of the communications filter. It includes the following fields:

- Address:** dropdown menu.
- Name:** dropdown menu.
- State:** dropdown menu.

Figure 32: Communications screen - Address tab in filter

#### 4.2.3 Log

The filter allows you to enter origin, level, or message.

This screenshot shows the 'Log' tab of the communications filter. It features these fields:

- Origin:** dropdown menu.
- Message:** dropdown menu.
- Level:** dropdown menu.

Figure 33: Communications screen - Log tab in filter

#### 4.2.4 Tag

The filter allows you to enter a tag.

This screenshot shows the 'Tag' tab of the communications filter. It contains a single input field labeled 'Tag'.

Figure 34: Communications screen - Tag tab in filter

### 4.3 Menu action - Cancel

The email can be canceled if it is in one of the following states: RECEIVED, PROCESSING, COMPLETE, DISPATCHING.

### 4.4 Menu action - Resend

The sent email can be forward again via the action 'Resend'. The resent email will be created and the icon 'Multiple Runs' will be added to the line of the selected communication - number 1 in the picture 35. The numbers 2 and 3 in the picture 35 (2 icons) indicates that the given communication is in the state 'Created' .

	Id	Address	Processing	Delivery	Scenario	Group	Category	Send time
<input type="checkbox"/>	1287	lukas.vanek+domail-test-103320@dominan...	2	3	ScenarSMTP_Lukas-SMTP			10.05.2023 08:33:21

Addresses: lukas.vanek+domail-test-103320@dominan..., lukas.vanek+domail-test-103320@dominan...  
 Channel: SMTP  
 Instance: NONE  
 Receive time: 10.05.2023 08:33:21  
 Processed time: 10.05.2023 08:33:21

Figure 35: Communications - action resend - before

After the email is forwarded and successfully sent, the status is changed to DISPATCHED - picture 36.

	Id	Address	Processing	Delivery	Scenario	Group	Category	Send time
<input type="checkbox"/>	1287	lukas.vanek+domail-test-103320@dominan...	2	1	ScenarSMTP_Lukas-SMTP			10.05.2023 08:33:21

Addresses: lukas.vanek+domail-test-103320@dominan..., lukas.vanek+domail-test-103320@dominan...  
 Channel: SMTP  
 Instance: NONE  
 Receive time: 10.05.2023 08:33:21  
 Processed time: 10.05.2023 08:33:21

Figure 36: Communications - action resend - after

In the picture 37, you can see when the individual sents were made.

RunID	No.	Message ID	Address	Name	State	Delivery state	Sent time	Action
1	1	domic.1287.1.1.1068630103.13.1693707601649@domail-test	lukas.vanek+domail-test-103320@dominan...	lukas.vanek+domail-test-103320@dominan...	Dispatched	Unknown	10.05.2023 08:33:22	Action
2	1	domic.1287.1.2.1333629930.0.1684480379243@domail-test	lukas.vanek+domail-test-103320@dominan...	lukas.vanek+domail-test-103320@dominan...	Dispatched	Unknown	19.05.2023 07:13:02	Action

Items per page: 100

Refresh Cancel

Figure 37: Communications - action resend - result

The email can be forwarded if it is in one of the following states: COMPLETE, DISPATCHED, DISPATCH\_ERROR, DISPATCHING (more precisely, there must be an email in the communication that

## 4.5 Menu action - Reprocess

The 'Reprocess' action allows starting the complete sending process again.

Email can be processed repeatedly if it is in one of the following states: CANCELLED, COMPLETE, FAILED, BLACKLISTED, DISPATCHING, DISPATCH<sub>E</sub>ROR, DISPATCHED.

Difference between 'Resend' and Reprocess action: Action 'Resend' only takes the generated email and sends it to another TO address, while 'Reprocess' generates the entire email for this TO address again. New generation can mean various things if the scenario, script, or template used during generation has changed.

## 4.6 Menu action - Export

Action 'Export' enables the export of selected communications to an export file.

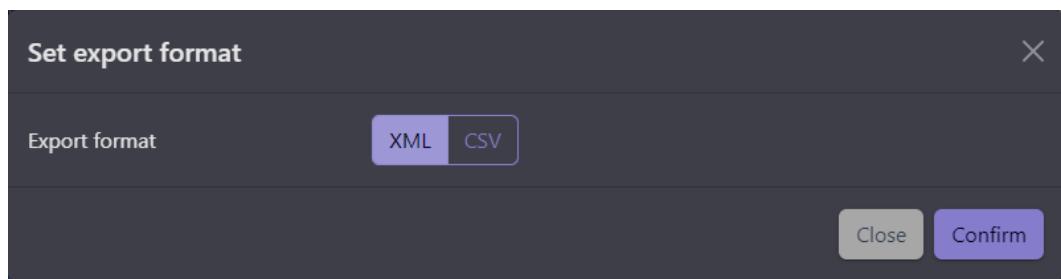


Figure 38: Communications - action export

In the picture 39 is structure the exported CSV file.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	Email - ID	Email - Ad Email - M Email - Do Email - Ča Email - Sti Email - Sti Komuniká	Komuniká	Komuniká	Komuniká	Komuniká	Komuniká	Komuniká	Komuniká	Komuniká	Komuniká	Komuniká	Komuniká	Komuniká	Komuniká	Komuniká	Komuniká	Komuniká	Komuniká	Komuniká	Komuniká	Komuniká	Scénár - IC Skript - ID
2	1285-1-1	lukas.vanek+domail.dominanz #####	DISPATCH DELIVERY		1285									ScenarSM	NONE	2023-05-11	FALSE	FALSE	FALSE	1047	888		
3	1286-1-1	lukas.vanek+domail.dominanz #####	DISPATCH DELIVERY		1286									ScenarSM	NONE	2023-05-11	FALSE	FALSE	FALSE	1047	888		
4																							

Figure 39: Communications - action export - CSV file

In the picture 40 is structure the exported XML file.

```
1  ?xml version="1.0" encoding="UTF-8" standalone="yes"?>
2  <communicationsWrapper>
3  <communicationWrapper>
4  <communication>
5    <id>1286</id>
6    <extId></extId>
7    <scenario>ScenarSMTP_Lukas-SMTP</scenario>
8    <category></category>
9    <group></group>
10   <country>NONE</country>
11   <sendTime>2023-05-10T08:33:20.890</sendTime>
12   <duplicity>false</duplicity>
13   <priority>false</priority>
14   <testMode>false</testMode>
15   <status>DISPATCHED</status>
16   <divStatus>DELIVERY_UNKNOWN</divStatus>
17   <cScenario>
18     <id>1047</id>
19     <scenario></scenario>
20     <category></category>
21     <description></description>
22     <createdDate></createdDate>
23     <createdBy></createdBy>
24     <changedDate></changedDate>
25     <changedBy></changedBy>
26   </cScenario>
27   <process>
28     <id>888</id>
29     <name>Lukas-SMTP</name>
30     <description>Default script to use for requests received via SMTP. Will process request by default based on scenario parameters!</description>
31     <createdDate>2023-05-10T08:32:14.238Z</createdDate>
32     <changedDate>2023-05-10T08:32:46.147Z</changedDate>
33   </process>
34   <createdDate></createdDate>
35   <createdBy></createdBy>
36   <changedDate></changedDate>
37 </communication>
38 <commAddress>
39   <contact>lukas.vanek+domail-test-103320@domianz.sk</contact>
40   <detail>domianz.sk</detail>
41   <id></id>
42   <name></name>
43   <sendTime>2023-05-10T08:33:22.003Z</sendTime>
44   <status>DISPATCHED</status>
45   <type>Email</type>
46 </commAddress>
47 </communicationWrapper>
48 </communicationsWrapper>
49
```

Figure 40: Communications - action export - XML file

## 5 Campaigns

On the next screen 41 you will find the screen where campaigns are managed. Using the button 'Add campaign' it is possible to add a new campaign. Campaigns are used for scheduled sending of pre-prepared emails.

Figure 41: Campaigns screen

### 5.1 Add campaign

On the next screen 42 you can see the first step of campaign creation. Mandatory data is the name of the campaign, date, time of sending the emails and of course the selection of the scenario with the template according to which the email will be sent.

Figure 42: Add campaign

After entering the data and clicking on the 'Save' button, the campaign will be created and it is necessary to add more data, which are described in the following section in the 'Campaign detail'.

### 5.2 Campaign detail

This part shows the details of the campaign. It is divided into 3 parts:

- General data
- Source data
- History

### 5.2.1 General data

The following screen 43 shows the campaign detail.

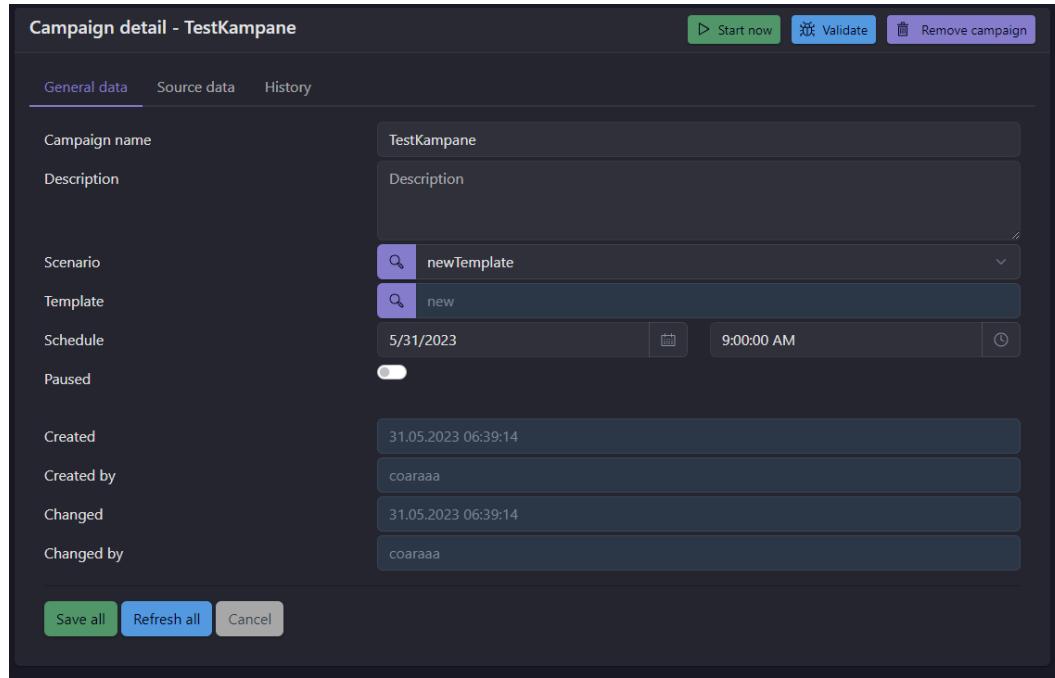


Figure 43: Detail of new campaign - general data

On the screen you can use the 'Remove campaign' button to remove the campaign. The next button 'Validate' is to validate the whole campaign and the last button 'Start now' is used to start processing immediately.

### 5.2.2 Source data

In the second tab 'Source data' (picture 44) you can find 'Main source', which are needed for processing when sending the campaign.

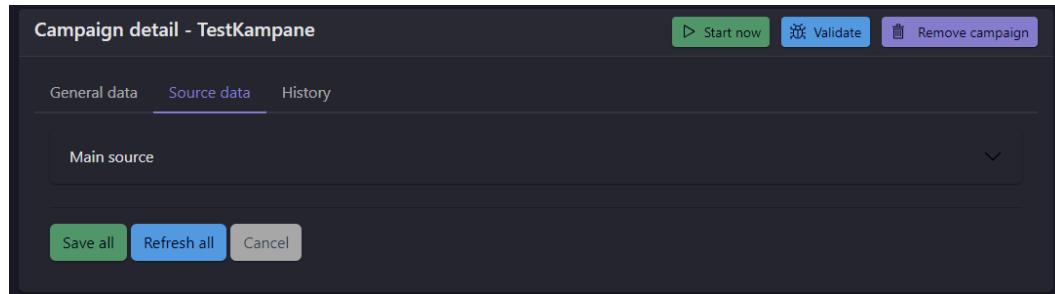


Figure 44: Detail of new campaign - source data 1

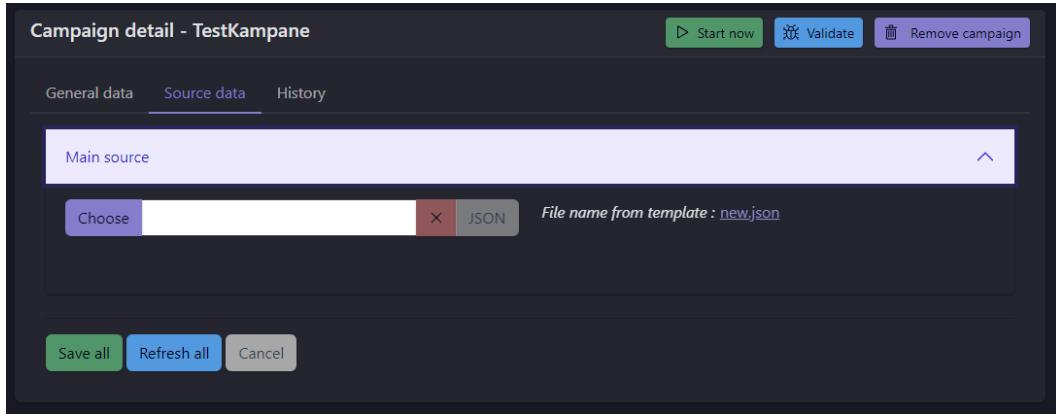
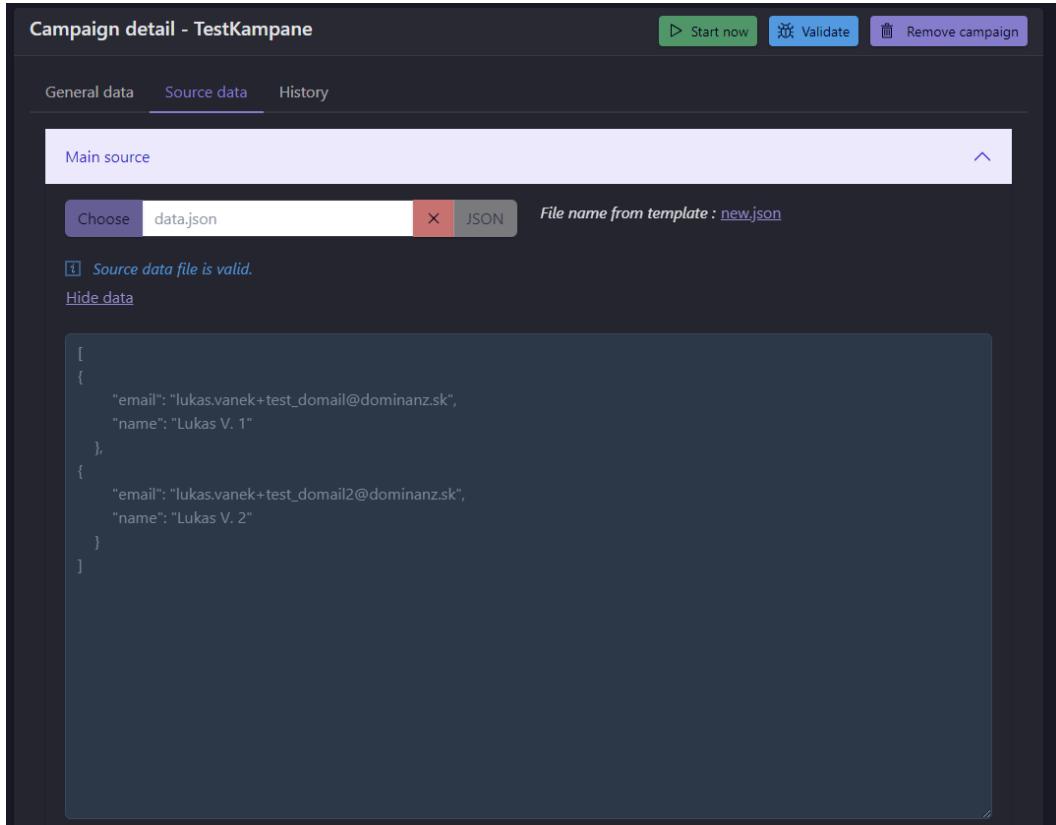


Figure 45: Detail of new campaign - source data 2

After loading and validating the JSON file (Listing 1),then the loaded data is displayed on the screen 46.

```
1 [
2 {
3     "email": "lukas.vanek+test_domail@dominanz.sk",
4     "name": "Lukas V. 1"
5 },
6 {
7     "email": "lukas.vanek+test_domail2@dominanz.sk",
8     "name": "Lukas V. 2"
9 }
10 ]
```

Listing 1: JSON example for source data



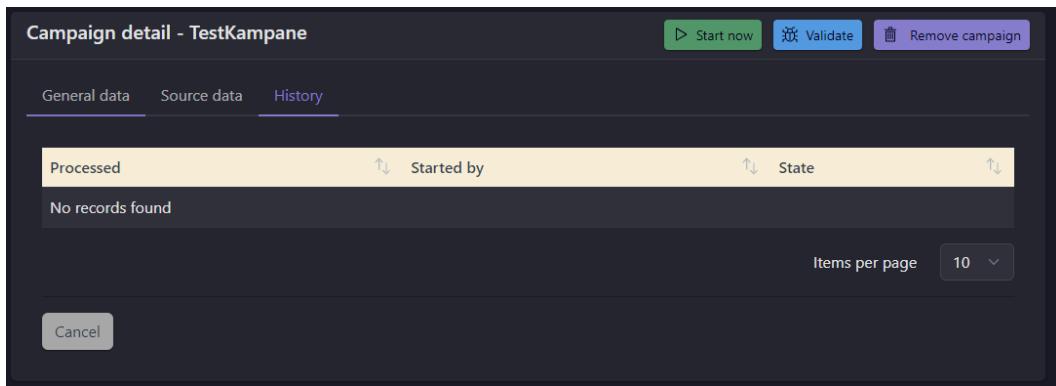
The screenshot shows the 'Campaign detail - TestKampane' interface. At the top, there are three buttons: 'Start now' (green), 'Validate' (blue), and 'Remove campaign' (purple). Below these are three tabs: 'General data', 'Source data' (which is selected and highlighted in blue), and 'History'. Under the 'Source data' tab, there is a section titled 'Main source'. It shows a file selection dialog with 'Choose' and 'data.json' selected, and a 'JSON' button. A note says 'File name from template : new.json'. Below this, a message indicates 'Source data file is valid.' and a 'Hide data' link. The main content area displays the JSON data:

```
[  
  [  
    {  
      "email": "lukas.vanek+test_domain@dominanz.sk",  
      "name": "Lukas V. 1"  
    },  
    {  
      "email": "lukas.vanek+test_domain2@dominanz.sk",  
      "name": "Lukas V. 2"  
    }  
]
```

Figure 46: Detail of new campaign - source data 3

### 5.2.3 History

The following screen 47 shows the processing history of the campaign.



The screenshot shows the 'Campaign detail - TestKampane' interface with the 'History' tab selected. At the top, there are three buttons: 'Start now' (green), 'Validate' (blue), and 'Remove campaign' (purple). Below these are three tabs: 'General data', 'Source data', and 'History' (which is selected and highlighted in blue). The main content area displays a table with the following columns: 'Processed', 'Started by', and 'State'. The table header includes sorting arrows for each column. A message at the bottom of the table says 'No records found'. At the bottom right, there is a 'Cancel' button and a 'Items per page' dropdown set to '10'.

Figure 47: Detail of new campaign - history

## 6 Statistics

The statistics screen provides a clear graphical display of the processing of outgoing communications. Groups by parameters are clickable for a deeper view of the group. Functions available from the screen:

- Filter to search by different parameters
- Delve into lower levels of groups
- View groups, view totals for groups

### 6.1 Filter

As we defined in section 4.2, the filter allows you to enter e.g. specific communication ID, channel, status or external ID or system ID. Of course also the date of dispatch from - to... Other filter tabs are also described there.

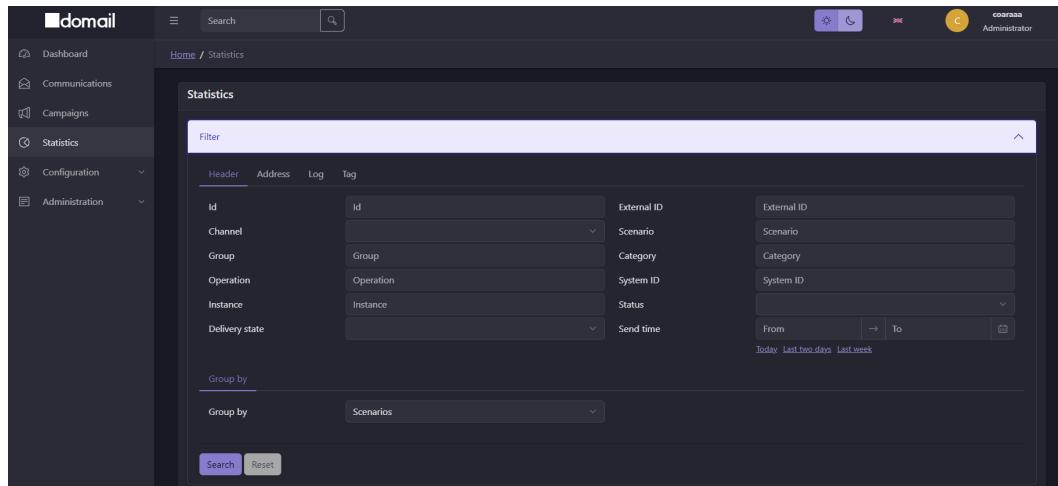


Figure 48: Statistics screen - filter

### 6.2 Group by

The resulting graphs can be grouped by

1. runs
2. scenarios
3. groups
4. tags
5. addresses

### 6.2.1 Group by runs

If we choose group by 'Runs', we will see the following graphs (49).

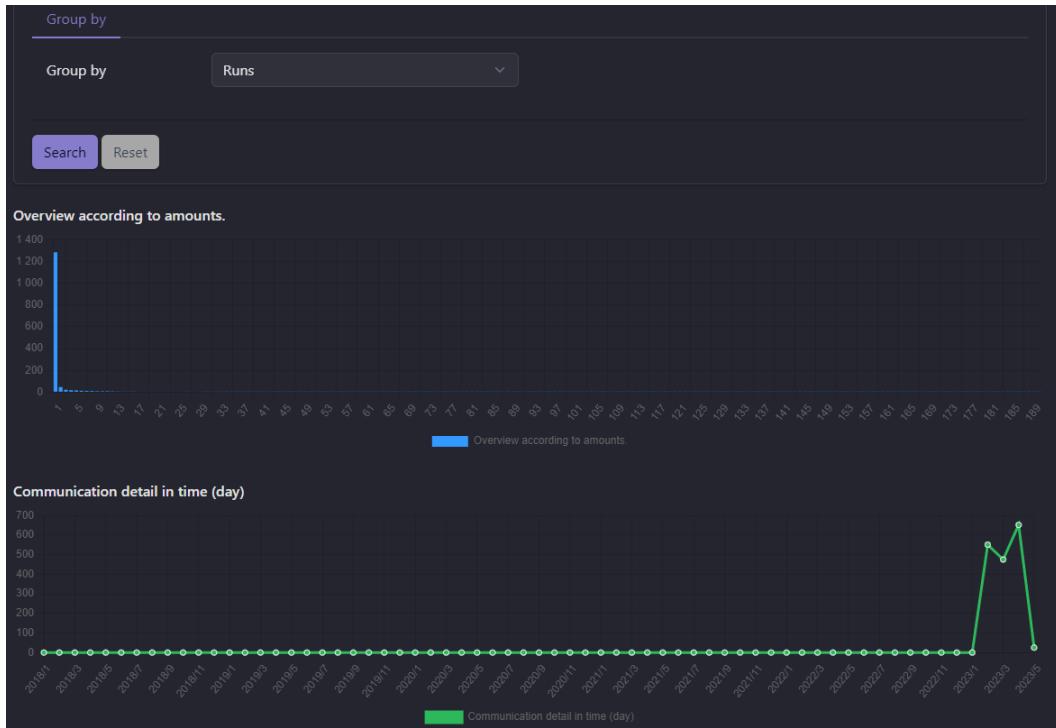


Figure 49: Statistics - Group by runs

In the picture 50 - the number of the run is on the x-axis. On the Y-axis is the number of runs.



Figure 50: Statistics - Overview according to amounts.

In the picture 51 is the number of communications in time.



Figure 51: Statistics - Communication detail in time (day).

In the next part (picture 52) there are 2 graphs. In the left graph (Overview of system statuses) are divided communications according to the state of sending the communications. In the second graph (Overview of delivery statuses) are divided communications according to the delivery state.



Figure 52: Statistics screen - Overview of system statuses/Overview of delivery statuses.

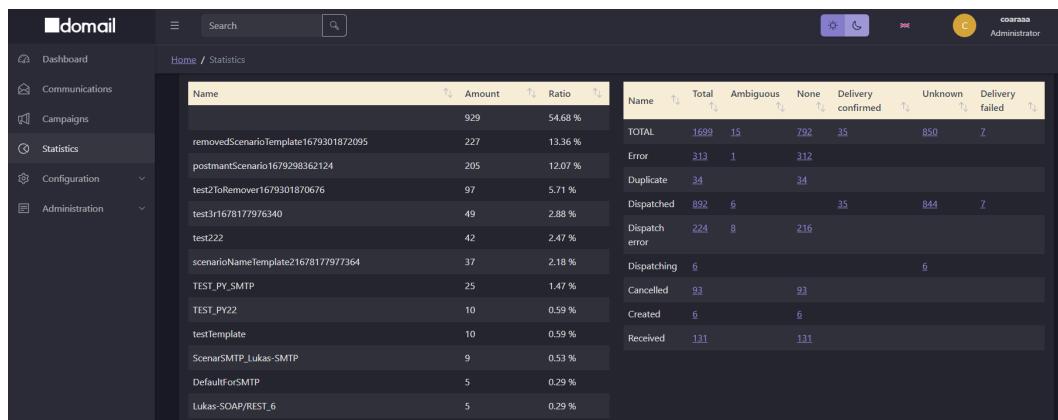


Figure 53: Statistics screen - tables.

### 6.2.2 Group by scenarios

If we choose group by 'Scenarios', we will see the following graphs (54).

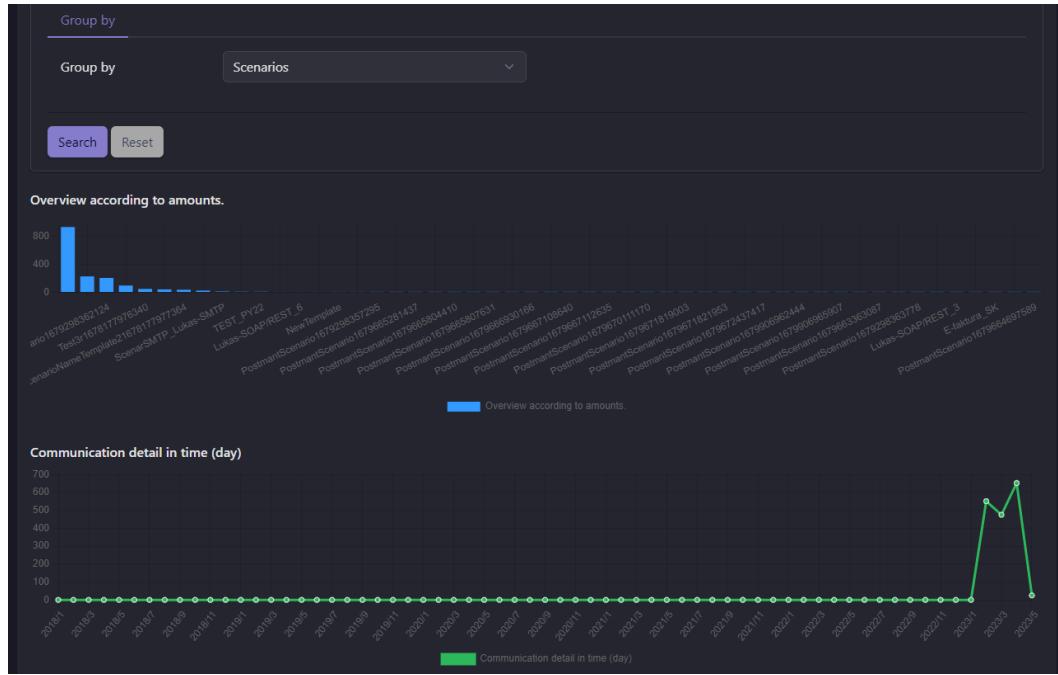


Figure 54: Statistics - Group by scenarios

In the picture 55 - the number of the run is on the x-axis. On the Y-axis is the number of runs.

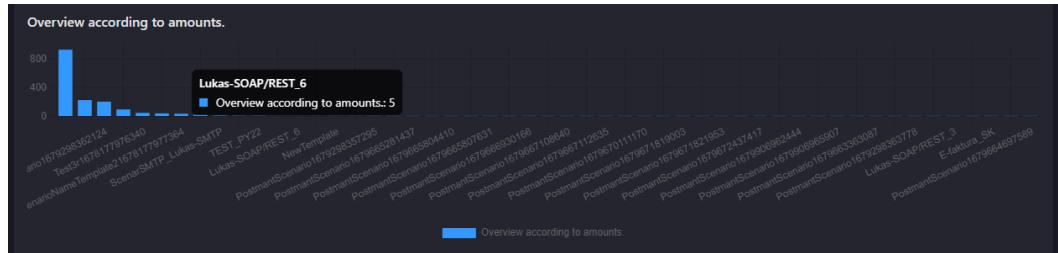


Figure 55: Statistics - Group by scenarios - Overview according to amounts.

In the picture 56 is the number of communications in time.



Figure 56: Statistics - Group by scenarios - Communication detail in time.

### 6.2.3 Group by groups

If we choose group by 'Groups', we will see the following graphs (57).



Figure 57: Statistics - Group by groups

In the picture 58 - the number of the run is on the x-axis. On the Y-axis is the number of runs.



Figure 58: Statistics - Group by groups - Overview according to amounts.

In the picture 59 is the number of communications in time.



Figure 59: Statistics - Group by groups - Communication detail in time.

#### 6.2.4 Group by tags

If we choose group by 'Tags', we will see the following graphs (60).

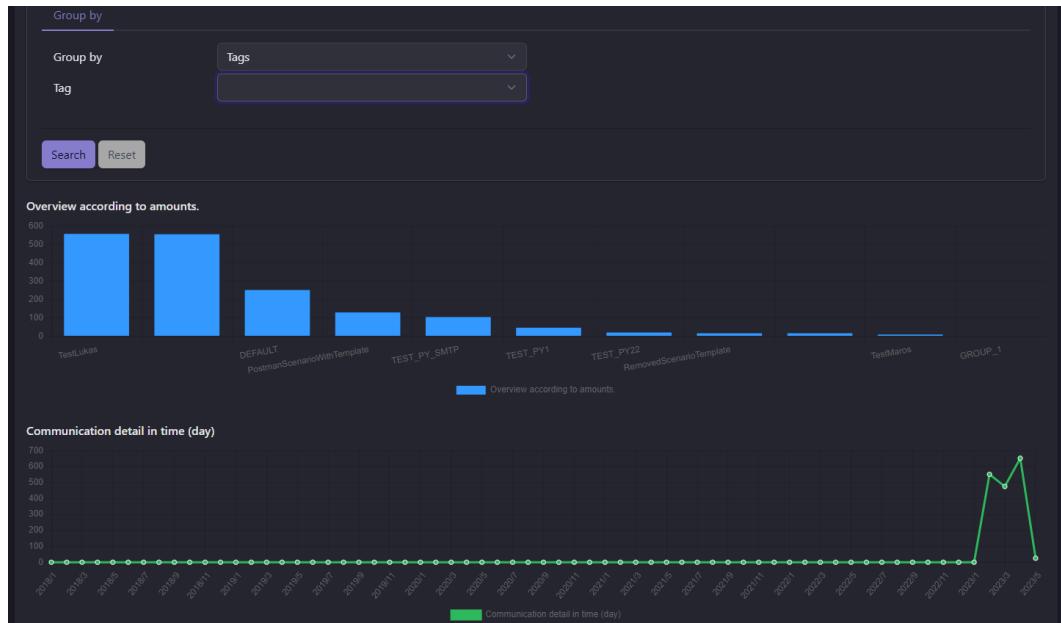


Figure 60: Statistics - Group by tags

In the picture 61 - the number of the run is on the x-axis. On the Y-axis is the number

of runs.



Figure 61: Statistics - Group by tags - Overview according to amounts.

In the picture 62 is the number of communications in time.

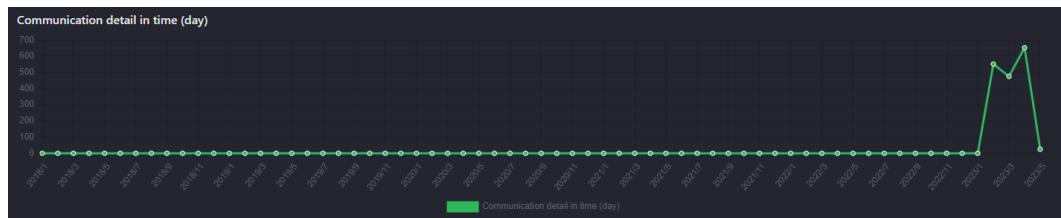


Figure 62: Statistics - Group by tags - Communication detail in time.

### 6.2.5 Group by addresses

If we choose group by 'Addresses', we will see the following graphs (63).

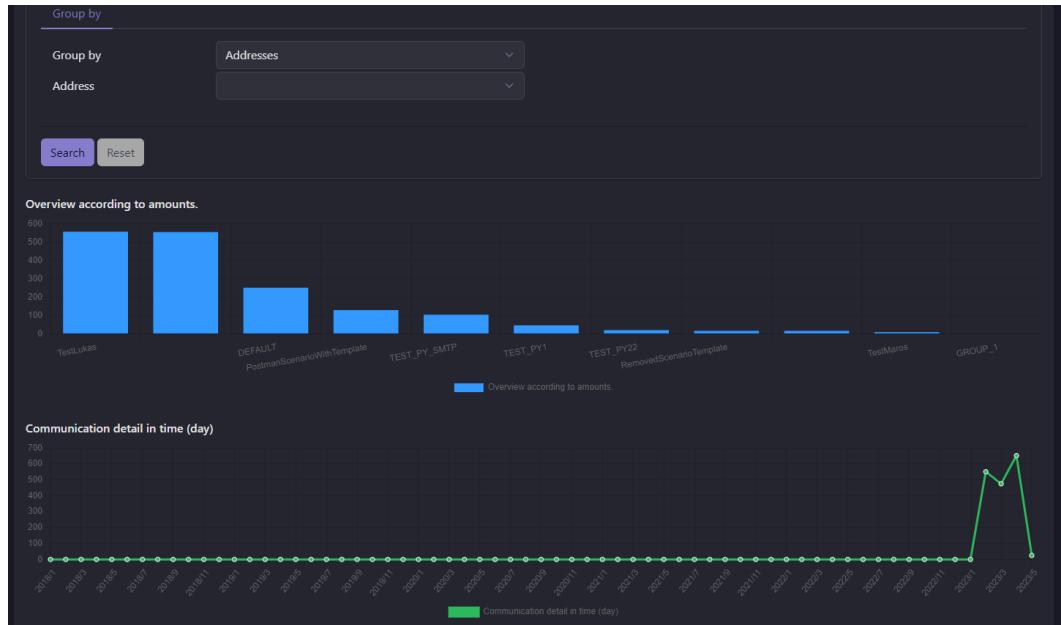


Figure 63: Statistics - Group by addresses

In the picture 64 - the number of the run is on the x-axis. On the Y-axis is the number of runs.



Figure 64: Statistics - Group by addresses - Overview according to amounts.

In the picture 65 is the number of communications in time.



Figure 65: Statistics - Group by addresses - Communication detail in time.

## 7 Configuration

In 'Configuration', in the 'Scenarios' section, we can view and manage all Scenarios.

### 7.1 Scenarios

Based on the communication data, a processing scenario is selected. The scenario as the main determines the script to compose the outgoing message. It is possible to set values for various constants for the scenario, which are then used in scripts or further processing.

In the picture 66, a list of scenarios is displayed.

Scenarios			
<input type="text"/> Filter			
Scenario	Enabled	Description	Type
DefaultForSMTP	✓		SMTP
ScenarSMTP_Lukas-SMTP	✓		SMTP
testTemplate	✓		SOAP/REST with template
TEST_PY22	✓	pre SCENARIO = TEST_PY22	SOAP/REST
MARTIN_SMTPT	✓	TEST_PY_SMTP	SMTP
newTemplate	✓		SOAP/REST with template
Lukas-SOAP/REST	✓		SOAP/REST
Lukas-SOAP/REST_3	✓		SOAP/REST with template
Lukas-SOAP/REST_6	✓		SOAP/REST
Lukas-SOAP/REST_2	✓		SOAP/REST
Lukas-SOAP/REST_4	✓		SOAP/REST
TEST_PY_SMTP	✓	TEST_PY_SMTP	SMTP
Lukas-SOAP/REST_5	✓		SOAP/REST

Figure 66: Scenarios screen.

In the following picture 67 there is a basic filter that is used to search for scenarios. You can enter the name of the scenario and the type of channel.

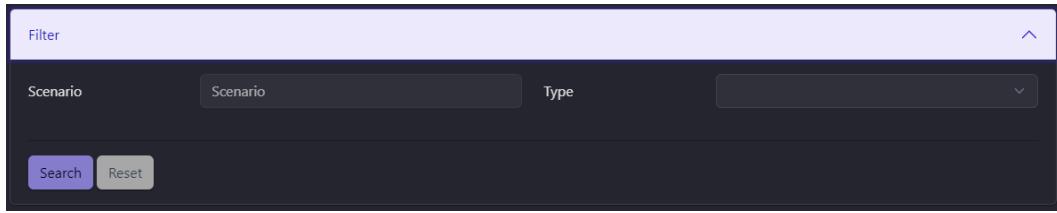


Figure 67: Scenarios screen - filter.

### 7.1.1 Add new scenario

After clicking the 'Add scenario' button in the picture 66, the following 68 image will be displayed, where there is the first basic screen for adding new scenario.

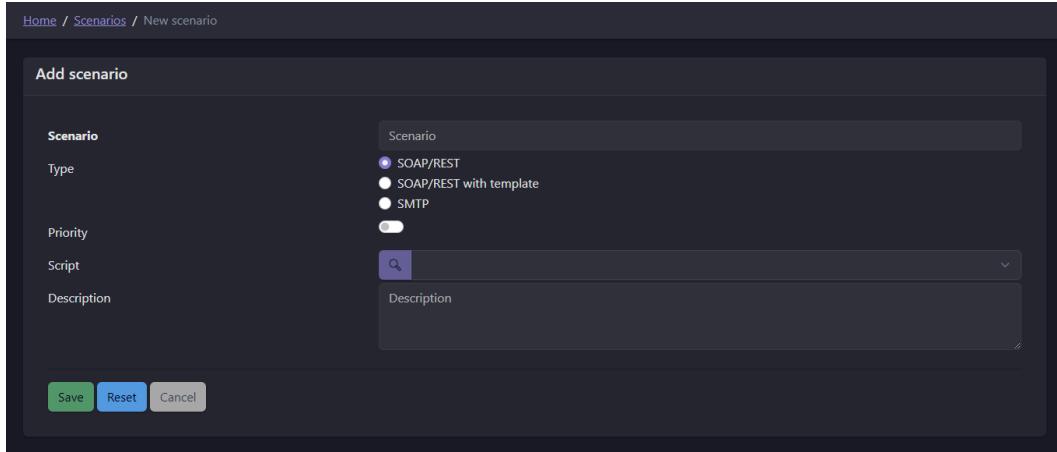


Figure 68: Scenarios screen - add new.

#### Basic information

When adding a new scenario, it is necessary to fill in all mandatory fields.

The screenshot shows the 'Add scenario' form with the following fields:

- Scenario:** A dropdown menu showing 'AddNewScenario' with a green checkmark.
- Type:** A radio button group where 'SOAP/REST' is selected (indicated by a blue dot).
- Priority:** A dropdown menu with a greyed-out option.
- Script:** An input field containing 'Lukas-script' with a red border and error message: 'Script is required field.'
- Description:** A text area with a green checkmark.

At the bottom are three buttons: 'Save' (green), 'Reset' (blue), and 'Cancel' (grey).

Figure 69: Scenarios screen - add new - required fields.

After creating a new scenario, the new scenario is disabled (70),

The screenshot shows the 'Scenario detail - AddNewScenario' screen with the following details:

- Scenario:** 'AddNewScenario' (disabled, indicated by a grey background).
- Type:** 'SOAP/REST' (disabled).
- Enabled:** A switch is off.
- Priority:** A switch is off.
- Script:** 'Lukas-script' (disabled).
- Description:** An empty text area.
- Created:** '24.05.2023 07:39:33'
- Created by:** 'coaraaa'
- Changed:** '24.05.2023 07:39:33'
- Changed by:** 'coaraaa'

At the top right are 'Duplicate' and 'Remove scenario' buttons. At the bottom are 'Save' (green), 'Restore' (blue), and 'Cancel' (grey) buttons.

Figure 70: Scenarios screen - created of new scenario.

### 7.1.2 Scenarios - edit

#### 7.1.2.1 Conditions

Next, it is necessary to set the conditions for use, after creation they are set by default (71). It is usually set to FALSE.

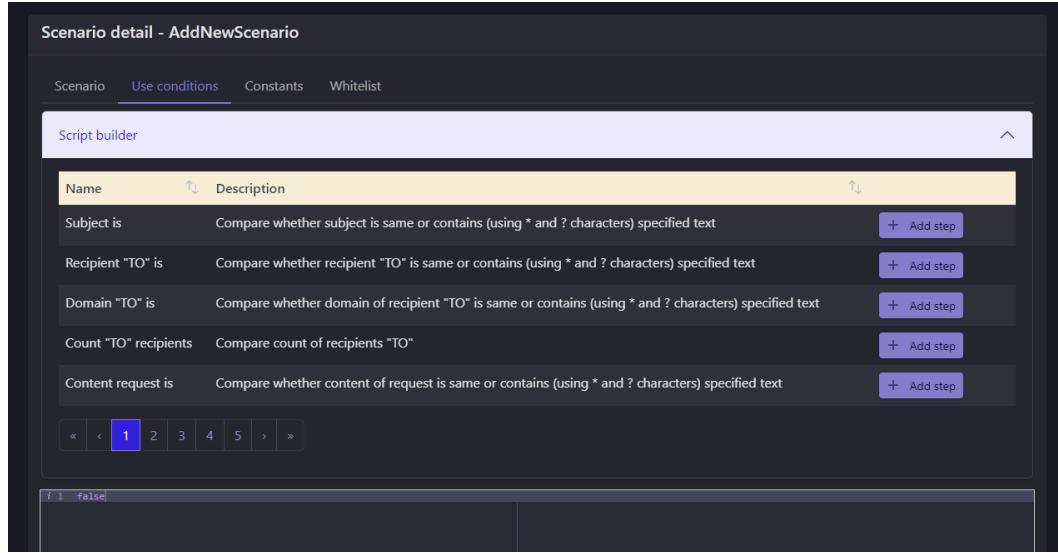


Figure 71: Scenarios screen - created of new scenario - conditions.

When adding/editing a scenario, it is possible to specify the conditions under which the given scenario will be used. A good helper is the table where the Script builder is located. After clicking on 'Add step' in the table, the requested script is added to the new line.

It is also possible to enter the condition manually, the auto complete help also helps with the description (picture 72).

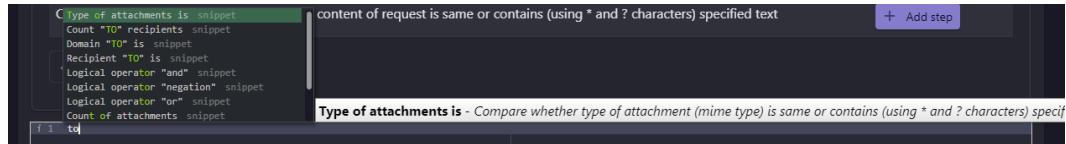


Figure 72: Scenarios screen - created of new scenario - conditions - edit.

## 7.2 Templates

In the picture 73 is there displayed a list of templates.

Name	Description	Created	Created by	Changed	Changed by
testing		28.02.2023 13:43:59	comictest	10.05.2023 13:15:29	coaraaa
postman1678355080751		09.03.2023 09:44:40	comictest	09.03.2023 10:56:23	comictest
postman1679558134803		23.03.2023 07:30:39	comictest	23.03.2023 07:30:39	comictest
test1679558150194d		23.03.2023 07:30:54	comictest	23.03.2023 07:30:54	comictest
doNotUse1679558314466	test postman	23.03.2023 07:33:38	comictest	23.03.2023 07:33:39	comictest
doNotUse1679558315437	test postman	23.03.2023 07:33:39	comictest	23.03.2023 07:33:40	comictest
new1677232097766		24.02.2023 09:48:18	comictest	24.02.2023 09:48:18	comictest
doNotUse1679558317943		23.03.2023 07:33:42	comictest	23.03.2023 07:33:42	comictest
doNotUse1679558319353	grrgrgr	23.03.2023 07:33:43	comictest	23.03.2023 07:33:43	comictest
new1677232366038		24.02.2023 09:52:46	comictest	24.02.2023 09:52:46	comictest

Figure 73: Template screen

In the following picture 74 there is a basic filter that is used to search for filters. You can enter the name of the template.

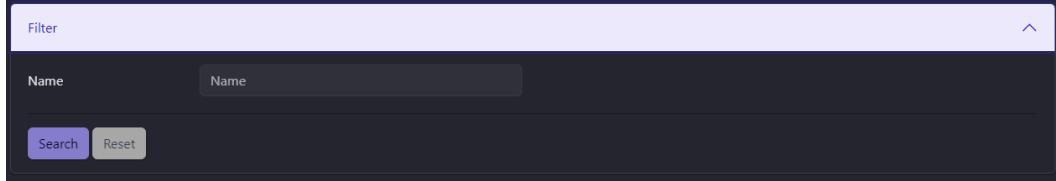


Figure 74: Template - filter

### 7.2.1 Create new template

After clicking the 'Add template' button in the picture 73, the following 75 image will be displayed, where there is the first basic screen for adding new template.

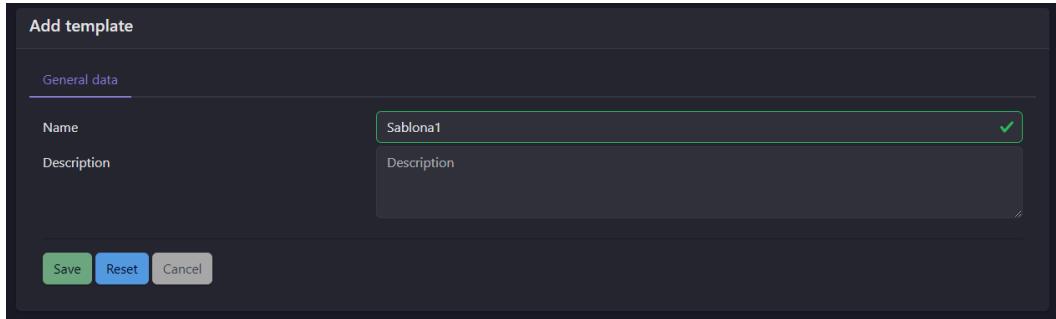


Figure 75: Template - add new

### General data

After creation of new template, the following screen will be displayed (76).

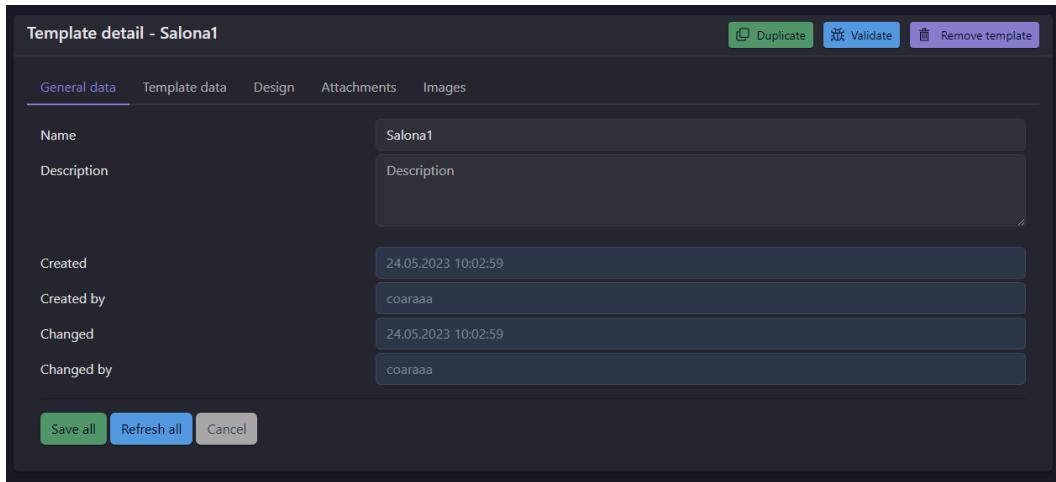


Figure 76: Template - general data

The screen displays basic information about the template, such as the name, description of the template and provides information about the creation time and the last time of modification of the template.

### Duplicate

The button 'Duplicate' creates a duplicate template from the current one.

### Validate

The button 'Validate' validates the current template is correct and free of errors.

### Remove templates

The button 'Remove templates' removes the current template.

**Save all**

The button 'Save all' saves all unsaved changes.

**Refresh all**

The button 'Remove templates' will restore all data from the server.

**Cancel**

The button 'Remove templates' cancels all unsaved changes.

### 7.2.2 Edit

#### 7.2.2.1 Template data

Data/variables are prepared in the 'Template data' folder, which will be used in the 'Design' folder.

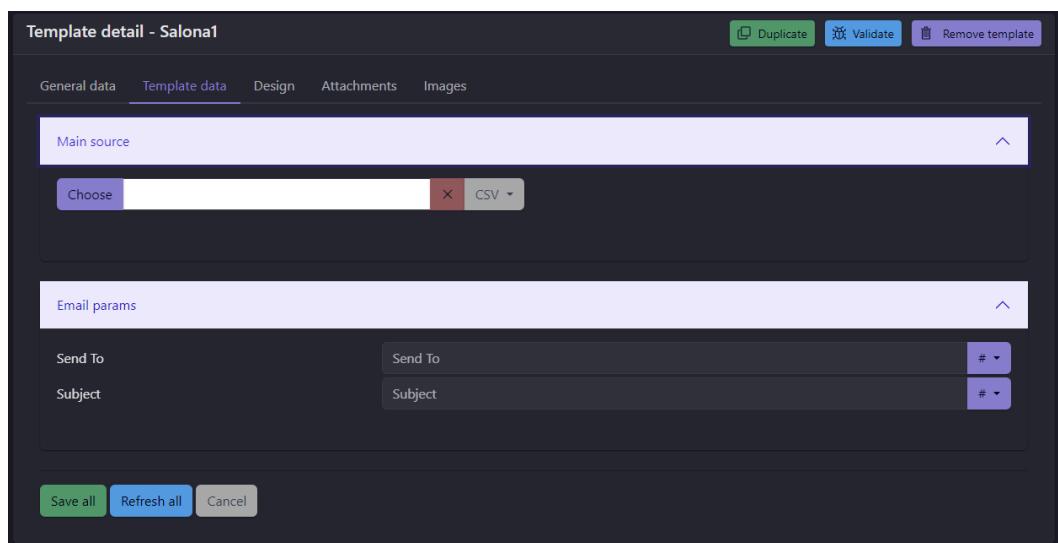


Figure 77: Template - template data

**Main source**

The data source for the template can be either CSV or JSON.

**CSV**

In next listening 2, we can see CSV example for import in Main source.

```

1 First name;Last name;Company;Email;
2 Value11;Value12;Value13;Value14;
3 Value21;Value22;Value23;Value24;
4 Value31;Value32;Value33;Value34;
5 Value41;Value42;Value43;Value44;
```

Listing 2: CSV example

After clicking on the button 'Choose', we will load a CSV file.

In the next step 78, it is necessary to set the delimiter, specify the string delimiter and indicate whether the file contains a header and set the flag indicating whether the file contains a header.

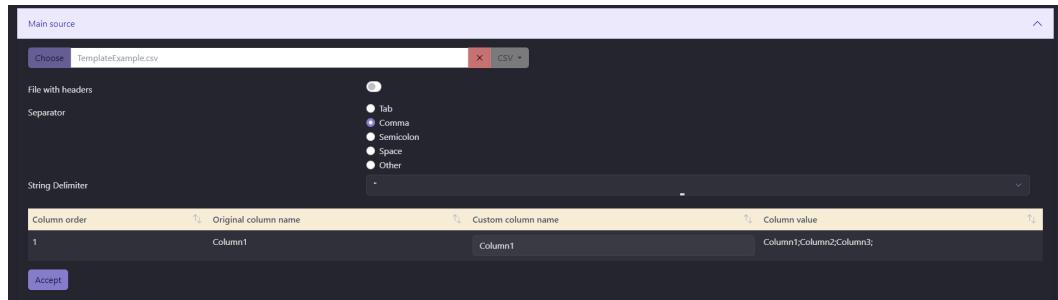


Figure 78: Template - CSV template data - parsing

For the sample CSV file, it is necessary to set that the file contains a header and the delimiter is a semicolon. After successful loading, we will see the data on the screen 79. You will see that 4 new variables have been created, which will be later used in the design (84) or 'Email params'. The variable name is taken from the 'Custom column name' column.

Column order	Original column name	Custom column name	Column value	Attachment
1	Column1	First name	Value11	<input type="checkbox"/>
2	Column2	Last name	Value12	<input type="checkbox"/>
3	Column3	Company	Value13	<input type="checkbox"/>
4				<input type="checkbox"/>

Figure 79: Template - CSV template data - loaded

From our sample file, these are the four variables:

- First name
- Last name
- Company
- Email

## JSON

In next listening 3, we can see JSON example for import in Main source.

```

1 [ 
2   {
3     "FirstName": "Value11",
4     "LastName": "Value12",
5     "Company": "Value13",
6     "Email" : "email@email.com"

```

```

7   },
8   {
9     "FirstName": "Value21",
10    "LastName": "Value22",
11    "Company": "Company2",
12    "Email" : "emailko@email.sk"
13  }
14 ]

```

Listing 3: JSON example

After clicking on the button 'CHOOSE', we will load a JSON file.

Column order	Original column name	Custom column name	Attachment
1	FirstName	FirstName	<input type="checkbox"/>
2	LastName	LastName	<input type="checkbox"/>
3	Company	Company	<input type="checkbox"/>
4	Email	Email	<input type="checkbox"/>

Figure 80: Template - JSON template data - loaded

From our sample file, these are the four variables:

- First name
- Last name
- Company
- Email

#### Email params

This section offers the possibility to enter the subject of the message and the list of recipients. We can use variables created from CSV/JSON files.

Send To	\${Email}	# ▾
Subject	Subject	# ▾

Figure 81: Email params in template data

### 7.2.2.2 Design

In the image 82, you can graphically design an EMAIL template and you can also use variables from the 'Template data' tab .

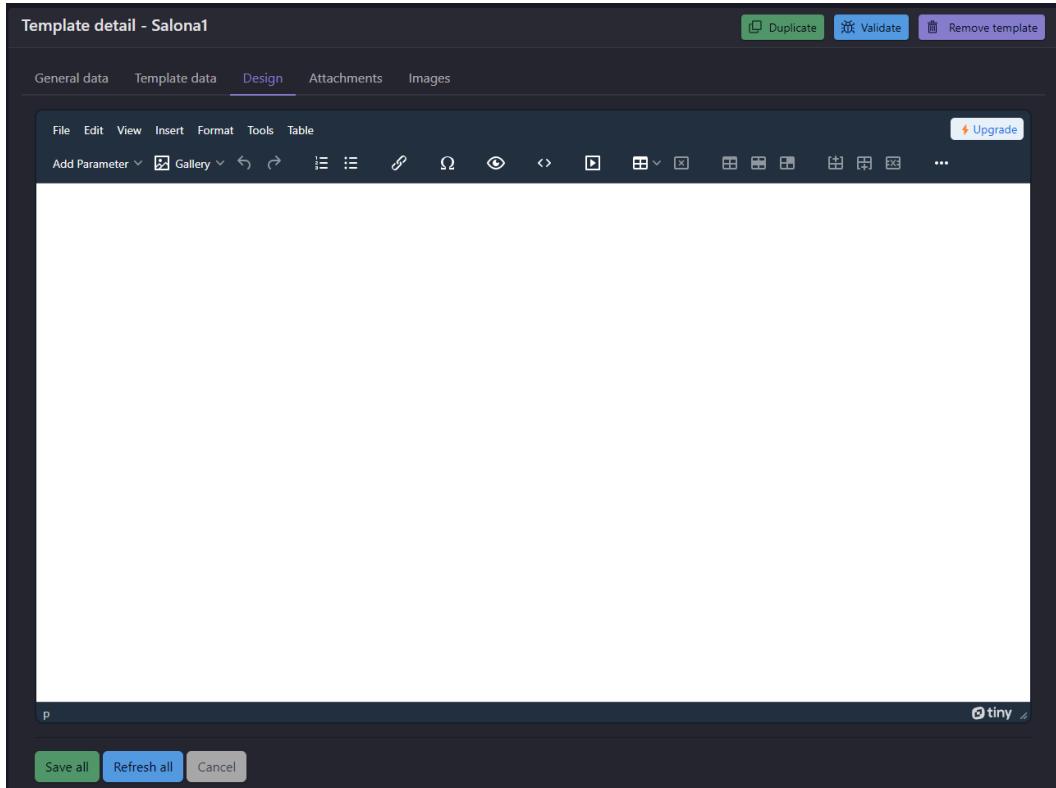


Figure 82: Empty design of template

On the following images 83 and 84, there are examples of how variables/parameters are added to the design.

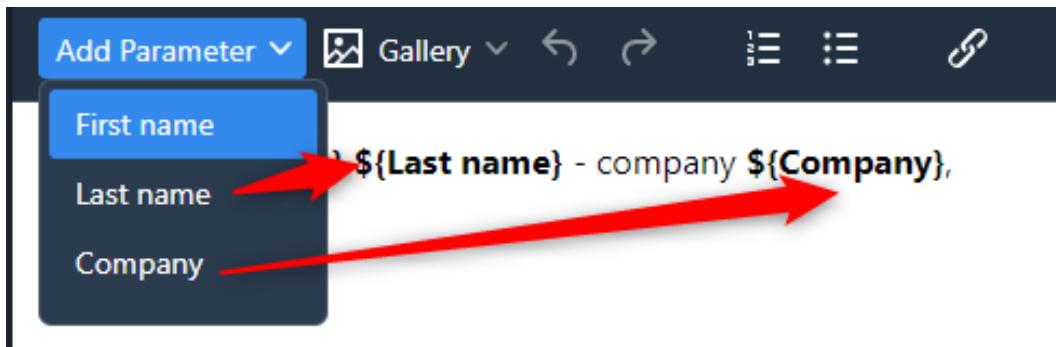


Figure 83: Template - design - use created parameter in template

In the image 84, you can see the resulting design with the used variables.

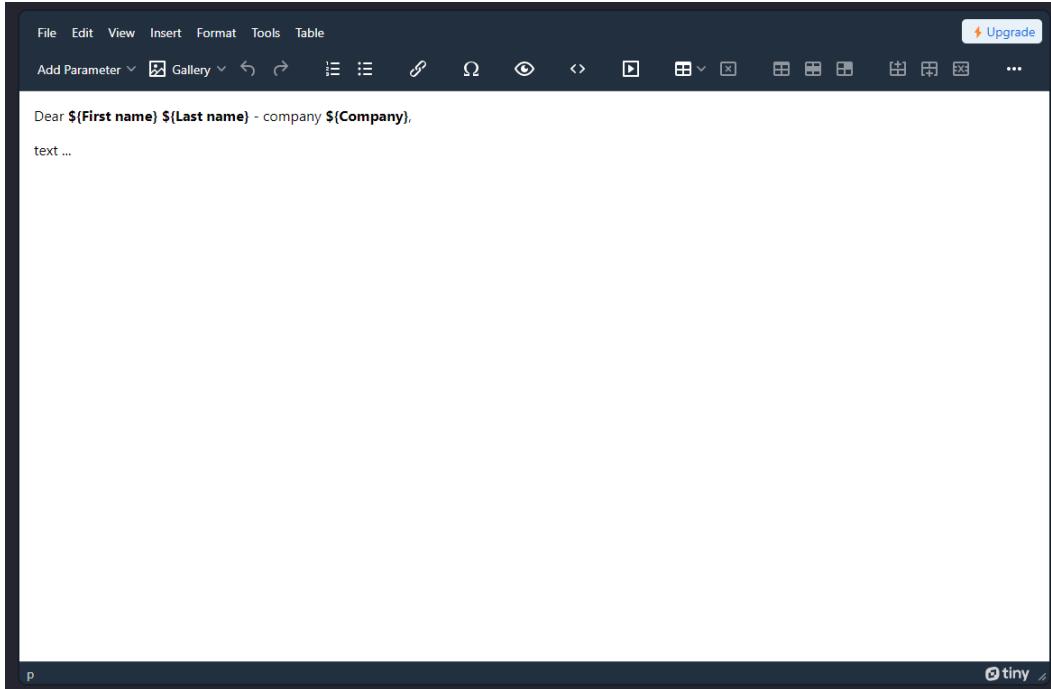


Figure 84: Template - design - used paremeters in template

#### 7.2.2.3 Attachments

In this tab (85) are added the attachments and will be send with the email. For example of use could be some general terms and conditions.

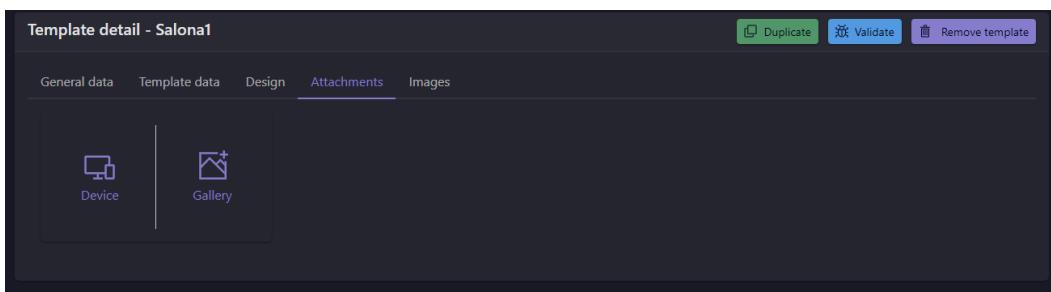


Figure 85: Attachments

In the picture 86 there is loaded attachment.

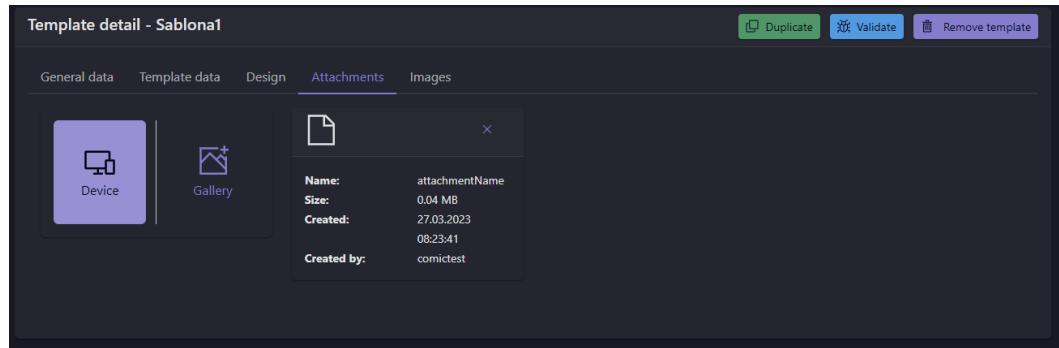


Figure 86: Attachments - loaded attachment

#### 7.2.2.4 Images

In this tab (87) are added the images and will be send with the email.

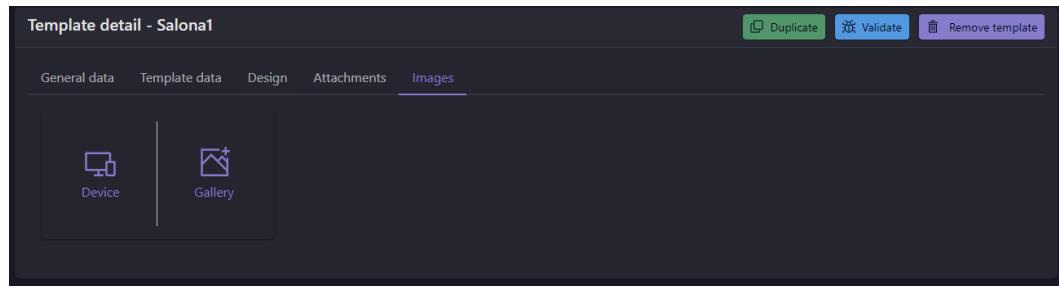


Figure 87: Images

### 7.3 Scripts

The script is implemented in JavaScript, which provides a wide range of options for processing incoming communication. The task of the script is to compile the MIME/SMS and set the parameters of the message to be sent. The editor provides an inline helper to find the function and a helper to call the function.

In the following picture 88 you can see the list of scripts.

Name	Send email	Save to COAR	Description
Lukas-SMTP	✓	✗	Default script to use for requests received via SMTP. Will process request by default based on scenario parameters!
Default script for requests received via SMTP2	✓	✓	Default script to use for requests received via SMTP. Will process request by default based on scenario parameters!
script	✓	✗	test
Lukas skript pridanie_trackPixel	✓	✗	
Lukas skript pridanie_CC	✓	✗	
test	✓	✗	
Lukas skript pridanie_trackPixel2	✓	✗	
Lukas-script	✓	✗	
Lukas-script2	✓	✗	
Lukas skript pridanie_BCC	✓	✗	

Figure 88: Script - list

### 7.3.1 Constants

In the following picture 89 you can see the list of constants. Constants can be used in script.

Name	Value	Created	Created by	Changed	Changed by
TEST123	TEST321	24.02.2023 08:37:27	comictest	27.03.2023 08:22:52	comictest

Figure 89: Script - constants

### 7.3.2 Create new script

On the screen 88 there is an 'Add script' button to add a new script. When clicked the button 'Add script', a screen 90 for creating a new script is displayed, where all required fields must be filled in.

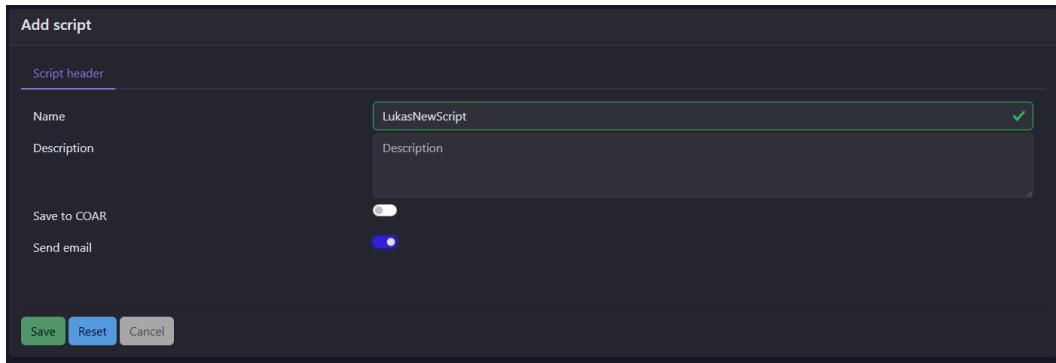


Figure 90: Script - add new

After filling in the script name and description, it is possible to save the script and continue creating. After saving the script, the 'Script header' tab is displayed, see image 91. The tab 'Script header' offers to change the script name, script description and then 2 switches to 'Save to COAR' and 'Send email'.

**Switch - Save to COAR** - if switch is turned off and this script is used in the communication, the communication is processed, but will not be stored on COAR.

**Switch - Send to email** - If switch is turned off and this script is used in the communication, the communication is processed and ready, but the email is not sent.

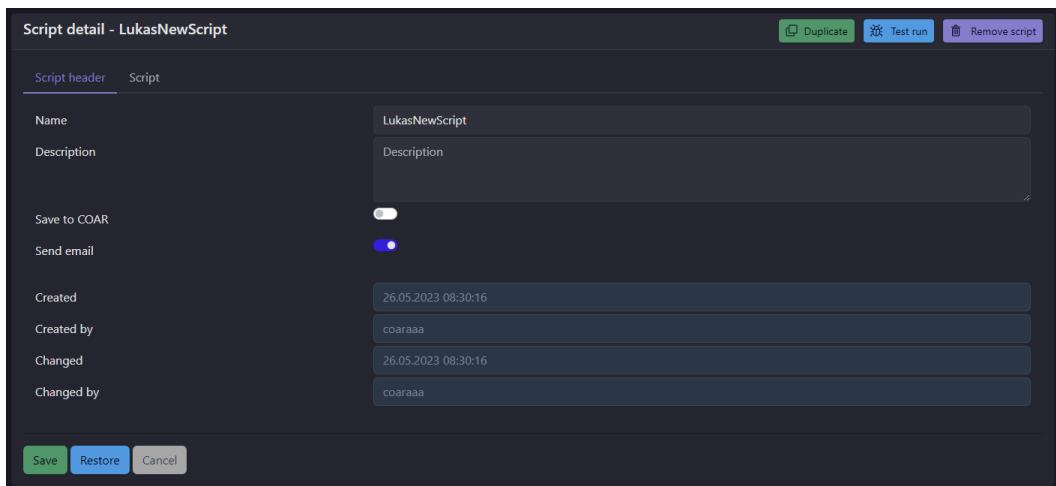


Figure 91: Script - add new - script header

In the following picture 92 there is a 'Script builder' in which it is possible to choose what commands a given script will execute when processing a given communication.

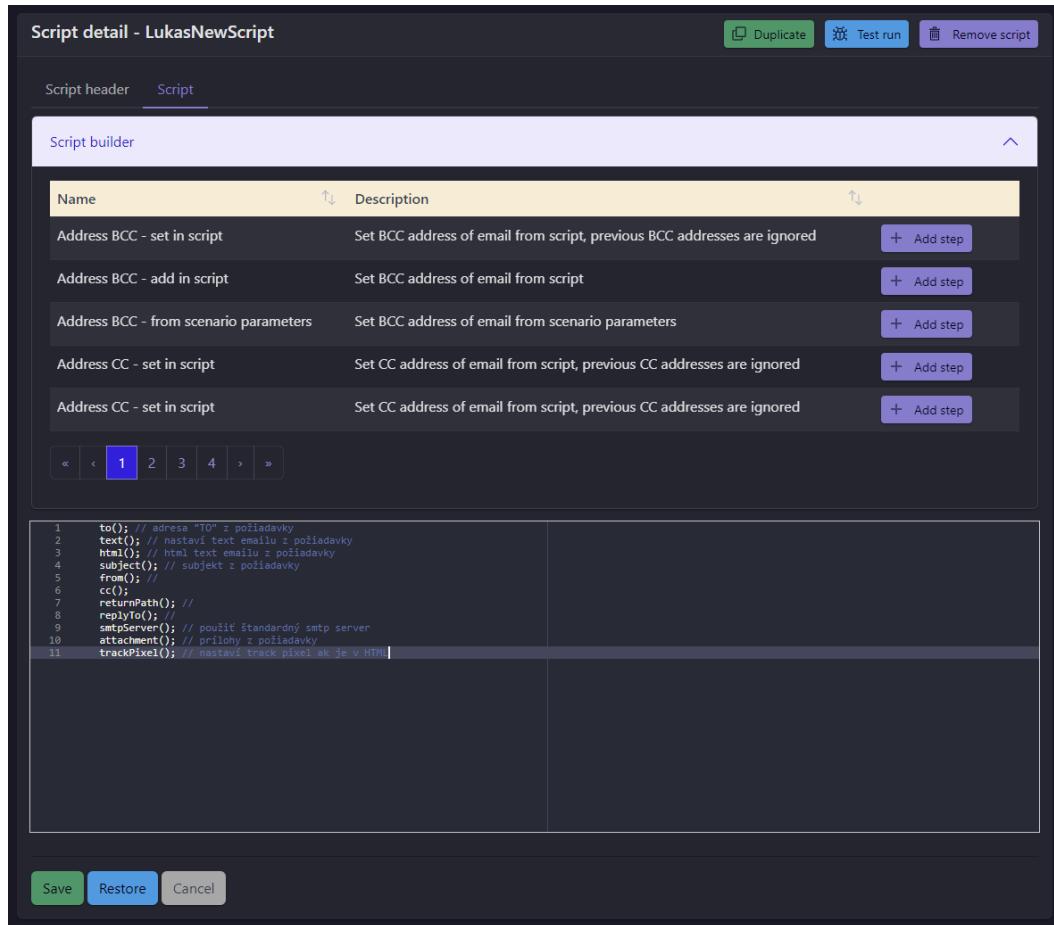


Figure 92: Script - add new - script

In the following image 92 you can find the following script:

```

1 to(); // adresa "TO" z požiadavky
2 text(); // nastaví text emailu z požiadavky
3 html(); // html text emailu z požiadavky
4 subject(); // subjekt z požiadavky
5 from();
6 cc();
7 returnPath();
8 replyTo();
9 smtpServer(); // použiť štandardný smtp server
10 attachment(); // prílohy z požiadavky
11 trackPixel(); // nastaví track pixel ak je v HTML|

```

Listing 4: Script example

The given commands are executed if the given script is assigned to some communication. For example, if an email doesn't have a trackPixel, it will add one, etc... Or we can change its Subject or ReplyTo. There are many possibilities. For working in the 'Script builder' there is a table at the top where all the commands we can use are listed, but we can also

write commands manually, where AutoComplete helps.

## 7.4 Gallery

### 7.4.1 Images

The screen 93 is used to manage images, which can then be used to create Templates and send emails. The screen contains a basic filter to search by image name.

Thumbnail	Name	Size	Created	Created by
	doMail logo_dark.png	2.21 KB	29.05.2023 06:48:19	coaraaa
	doMail logo.png	2.26 KB	29.05.2023 06:48:58	coaraaa

Figure 93: Images

### 7.4.2 Attachments

The screen 94 is used to manage attachments, which can then be used to create Templates and send emails. The screen contains a basic filter to search by attachment name.

Name	Size	Created	Created by
readme.txt	18 B	29.05.2023 07:26:35	coaraaa

Figure 94: Attachments

## 8 Administration

### 8.1 Users

The screen 95 shows the users of the system. The screen contains a basic filter to search by user name.

Username	Name	Enabled	Type	Email Adress	Roles
coaraaa	coaraaa	✓	ADMIN	coaraaa@domianz.local	
coarccc	coarccc	✓	USER	coarccc@domianz.sk	
laco	Laco Domin	✓	ADMIN	laco.domin@domianz.sk	
coarbbb	coarbbb	✓	USER		read, TestRola-citanie+administracia
comictest	comictest	✓	ADMIN	comictest@domianz.sk	administration, configuration

Figure 95: Users

#### 8.1.1 User detail

In the following image 96 you can see a detail of the system user with the assigned role, which can be changed.

User Detail - coaraaa	
Username	coaraaa
Name	coaraaa
Email Adress	coaraaa@domianz.local
User Type	Admin
Roles	Roles
Special Access Rules	+ Add
Enabled	<input checked="" type="checkbox"/>
<input type="button" value="Save"/> <input type="button" value="Restore"/> <input type="button" value="Cancel"/>	

Figure 96: User detail

It is also possible to assign not only the role, but also permissions to a specific scenario, group and category via 'Special Access Rules'. The user can also be blocked via the 'Enabled' switch.

## 8.2 Roles

In the following image 97 you can manage 'Roles' in the Domail system.

Name	Description	Created	Created by	Changed	Changed by
TestRola-citanie+administracia		05.04.2023 08:39:15	coaraaa	05.04.2023 08:39:15	coaraaa
test_name135729656	this is description	27.03.2023 08:21:15	comictest	27.03.2023 08:21:15	comictest
role_to_remove1679906790504	description	27.03.2023 08:21:15	comictest	27.03.2023 08:21:15	comictest
test_name11679906789664	description	27.03.2023 08:21:14	comictest	27.03.2023 08:21:14	comictest
test_name2oo72961316	description2	27.03.2023 08:21:12	comictest	27.03.2023 08:21:12	comictest
test_name169144792	this is description	24.03.2023 15:12:52	comictest	24.03.2023 15:12:52	comictest
test_name11679672273051	description	24.03.2023 15:12:51	comictest	24.03.2023 15:12:51	comictest
test_name177386497	this is description	24.03.2023 13:46:05	comictest	24.03.2023 13:46:05	comictest
test_name11679667064628	description	24.03.2023 13:46:03	comictest	24.03.2023 13:46:03	comictest
test_name116071076	this is description	24.03.2023 13:27:18	comictest	24.03.2023 13:27:18	comictest

Figure 97: Roles

### 8.2.1 New Role

In the following image 98 you can create new role - button 'Add role'.

Figure 98: Roles - New role

In the following image 99 you can assign permissions to a specific scenario, group and category via 'Special Access Rules'.

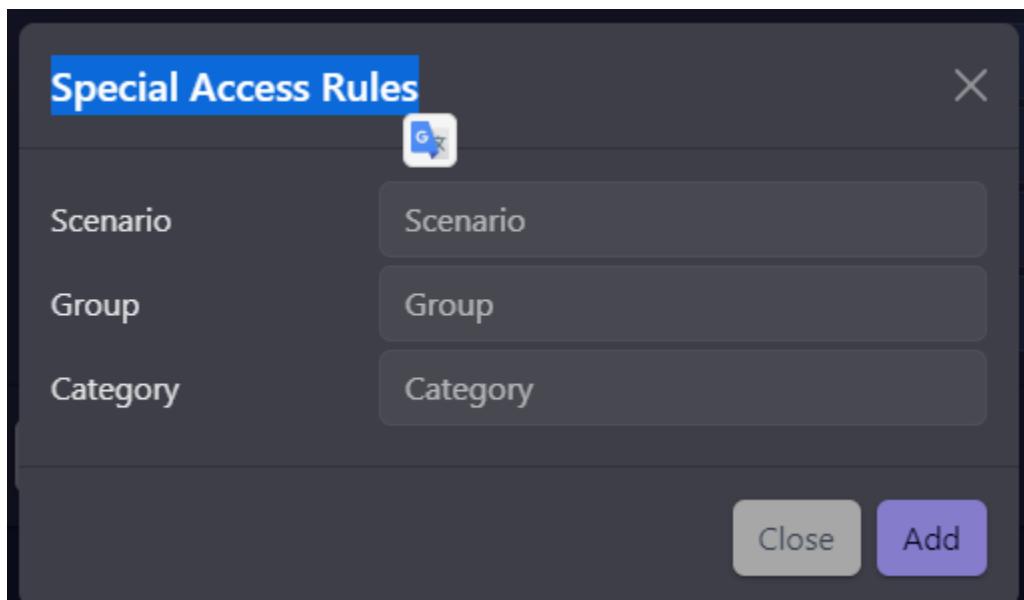


Figure 99: Roles - New role - special access rules

### 8.2.2 Role detail

In the following image 100 you can see role detail. You can change this role, for example you can change name, description, roles and special access rules. You can delete the role via the button 'Delete role'.

A screenshot of a "Role detail" page for a role named "TestRola-citanie+administracia". The page has a dark header with the role name and a "Remove role" button. Below the header, there are several input fields and dropdown menus for editing the role's details. The "Name" field contains "TestRola-citanie+administracia". The "Description" field is empty. The "Roles" section shows "Read" and "Administration" selected. The "Special Access Rules" section is empty and has a "+ Add" button. The "Created" field shows "05.04.2023 08:39:15". The "Created by" field shows "coaraaa". The "Changed" field shows "05.04.2023 08:39:15". The "Changed by" field shows "coaraaa". At the bottom, there are "Save", "Restore", and "Cancel" buttons.

Figure 100: Roles detail

## 8.3 Monitoring

This page shows a basic overview of how the Domail server works. It is divided into several parts.

### 8.3.1 Services

The following image 101 shows a list of services running in the background. Individual services of the Domail server can be stopped and possibly started.

Monitoring			
		Active	Status
Service name	Active	Status	
Domail_input-ws.service	✓	Running	
Domail_ui-rest.service	✓	Running	
Domail_mime-proc.service	✓	Running	
Domail_mail-sender.service	✓	Running	
Domail_COAR-arch.service	✓	Running	
Domail_input-smtp.service	✓	Running	
Domail_mail-tracker.service	✓	Auto-restart	
Domail_activeMQ.service	✓	Running	
Domail_trackpixel.service	✓	Running	

Figure 101: Monitoring - services

### 8.3.2 Queues

The following image 102 shows a list of queues running in the ActiveMQ. Individual queues can be cleared via the button 'Purge pending messages'.

<input type="checkbox"/>	Queue name	Pending messages	Number of consumers
<input type="checkbox"/>	COM_IKOSARCH		
<input type="checkbox"/>	COM_NOTIF	2	
<input type="checkbox"/>	COM_MAIL_priority		1
<input type="checkbox"/>	COM_COARARCH		1
<input type="checkbox"/>	COM_MAIL_normal	2	
<input type="checkbox"/>	COM_IN_priority		1
<input type="checkbox"/>	COM_IN_normal	2	
<input type="checkbox"/>	Domic.COM_notif		

Items per page 10

Figure 102: Monitoring - queues

## 8.4 Blacklist

The Domail system includes the functionality to block certain addresses that are specified in the blacklist. The following image 103 shows a list of blocked email address. Adding another entry to the blacklist is realized on the server side.

<input type="checkbox"/>	Email Adress	Inserted	Actively blocked	Reason	Critical errors	Total errors
No records found						
Items per page <span style="border: 1px solid #ccc; padding: 2px 5px;">100</span>						

Figure 103: Blacklist

## 8.5 Whitelist

The following image 104 shows a list of allowed email addresses. Whitelist is a list of addresses to which you will be allowed to send email. This means that if Whitelist is enabled and the email address is not in the list, the email will not be sent.

Whitelist						
Filter						
Recipient	Enabled	Created	Created by	Changed	Changed by	
admin@admin.sk	<input checked="" type="checkbox"/>	07.03.2023 08:10:29	comictest	27.03.2023 08:21:09	comictest	<a href="#">Edit</a>
updated@admin.sk	<input checked="" type="checkbox"/>	27.02.2023 07:42:53	comictest	20.03.2023 07:43:45	comictest	<a href="#">Edit</a>

Items per page 10

Figure 104: Whitelist

If there is a message at the header saying 'Whitelist is not active...'. To enable Whitelist, the 'app.whitelist.global.active' setting (picture 105) needs to be set to TRUE in the global settings.



Figure 105: Whitelist - on/off in setttings

### 8.5.1 Whitelist data item

In the following picture 106 you can see the detail of the specific email. In the detail you can either enable/disable the whitelist for the email or delete this whitelist item.

**Whitelist detail item - admin@admin.sk**

Remove

Recipient	admin@admin.sk
Enabled	<input checked="" type="checkbox"/>
Created	07.03.2023 08:10:29
Created by	comictest
Changed	27.03.2023 08:21:09
Changed by	comictest

[Save](#) [Restore](#) [Cancel](#)

Figure 106: Whitelist data item

## 8.6 Settings

In this part of the system (image 107) there are settings that can be changed by the user.

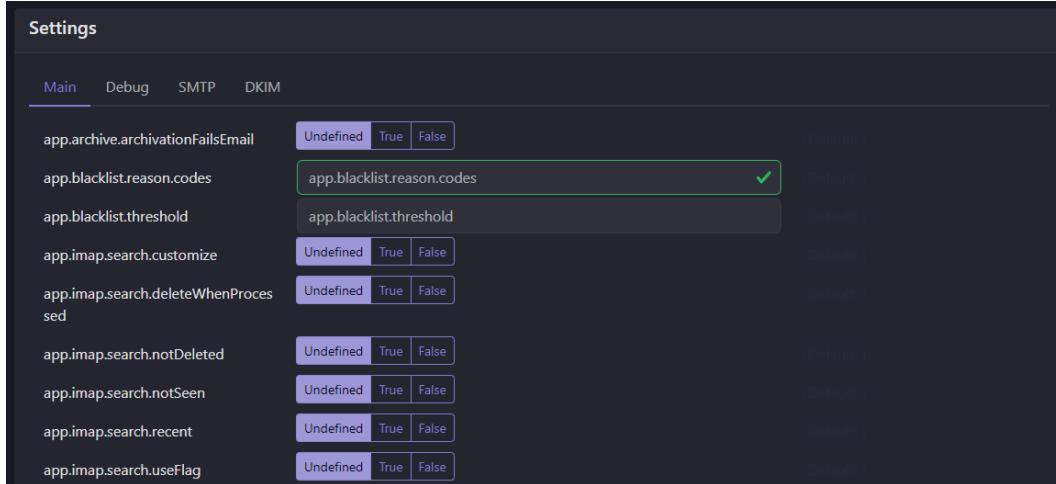


Figure 107: Settings

It is divided into 4 parts:

1. Main
2. Debug
3. SMTP
4. DKIM

Each item has expanding information in the tooltip above the row (picture 108).

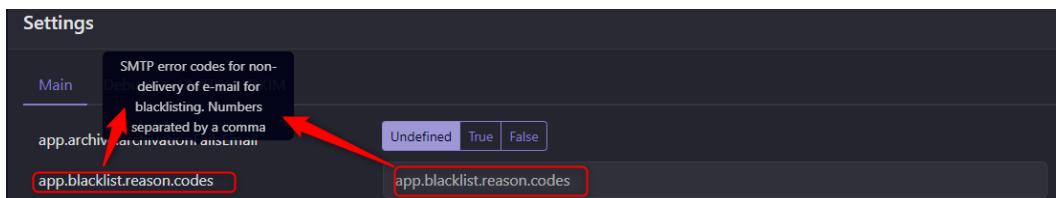


Figure 108: Settings

A more detailed description of each parameter in the settings can be found in the administrator's technical manual.

### 8.6.1 Main

In this part of the 'MAIN' settings - the following images 109, 110, 111, and 112 are mainly the settings for the Domail server.

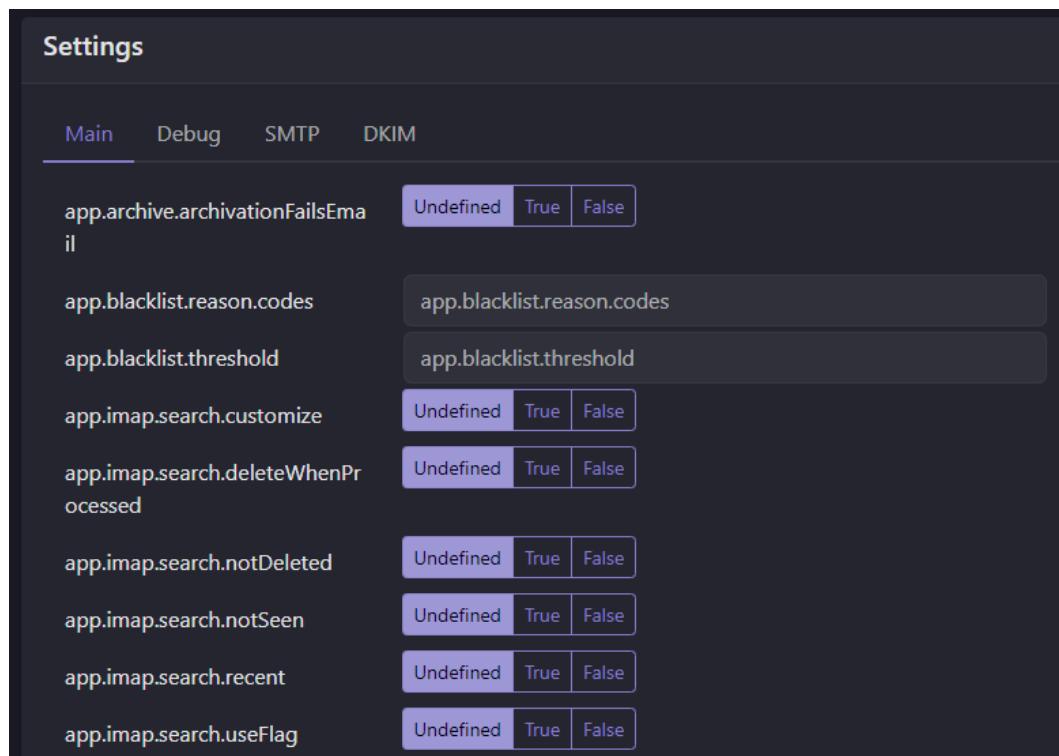


Figure 109: Settings - Main 1

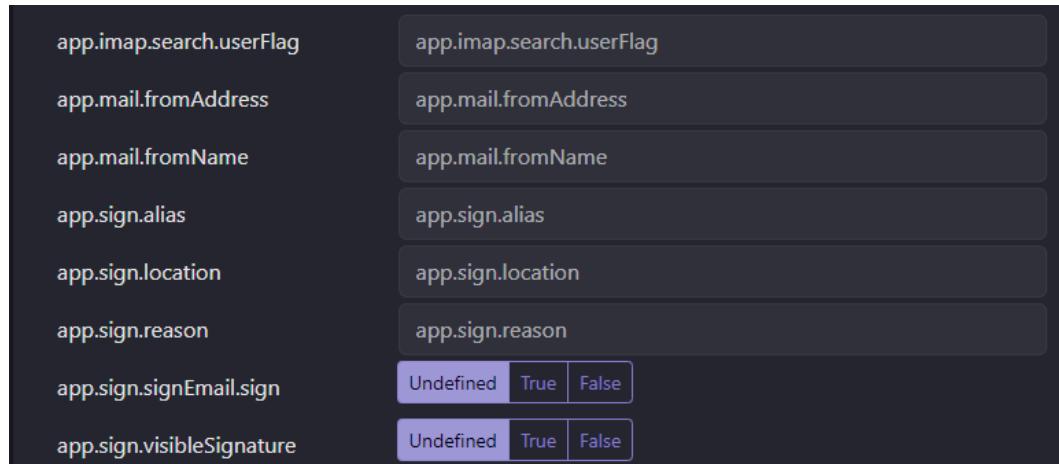


Figure 110: Settings - Main 2

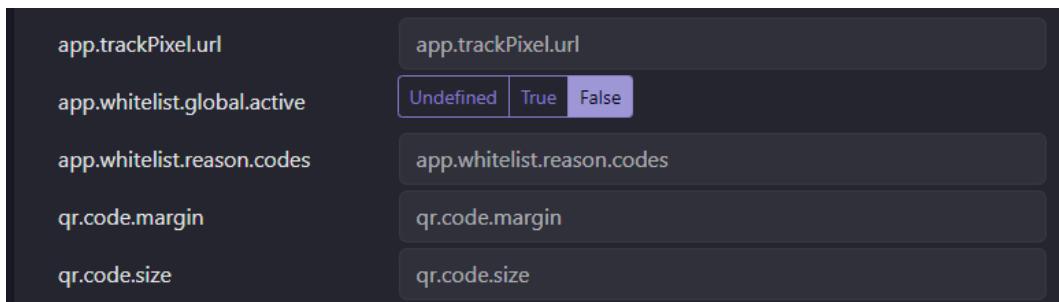


Figure 111: Settings - Main 3

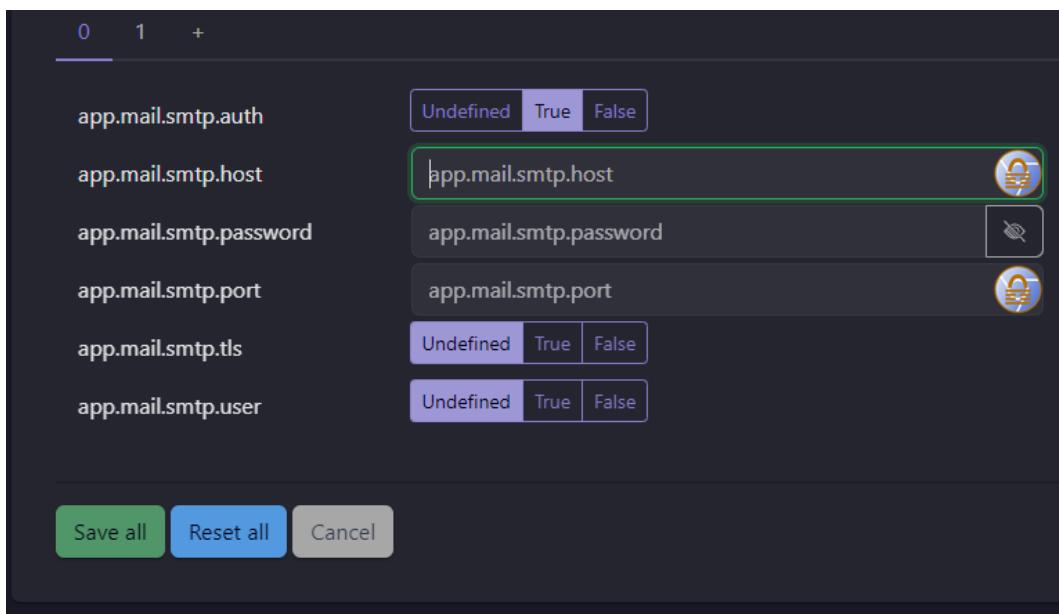


Figure 112: Settings - Main 4

### 8.6.2 Debug

In this section are the settings for the 'Debug' mode.

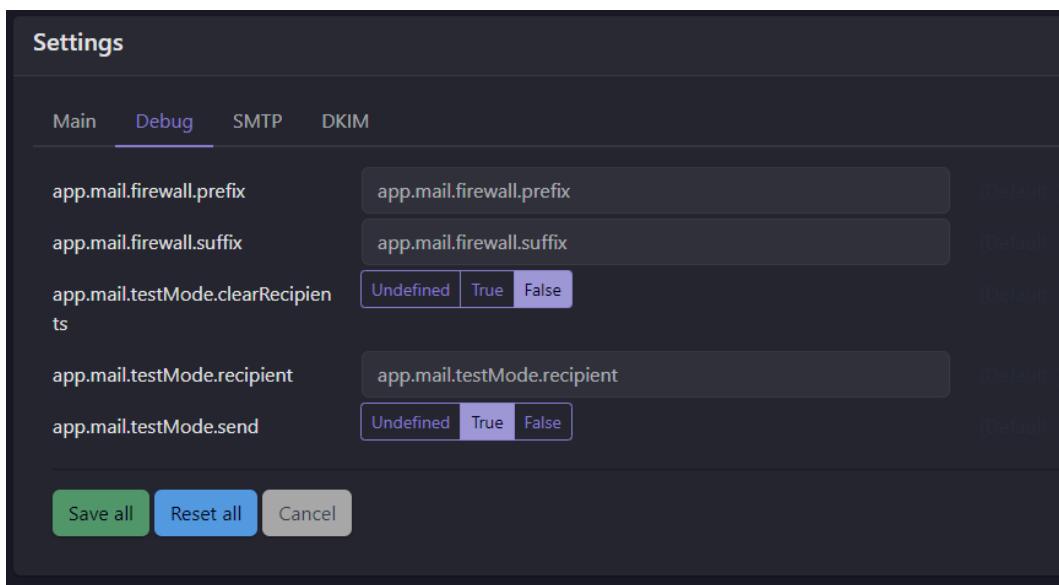


Figure 113: Settings - Debug

### 8.6.3 SMTP

In this section are the settings for 'SMTP'.

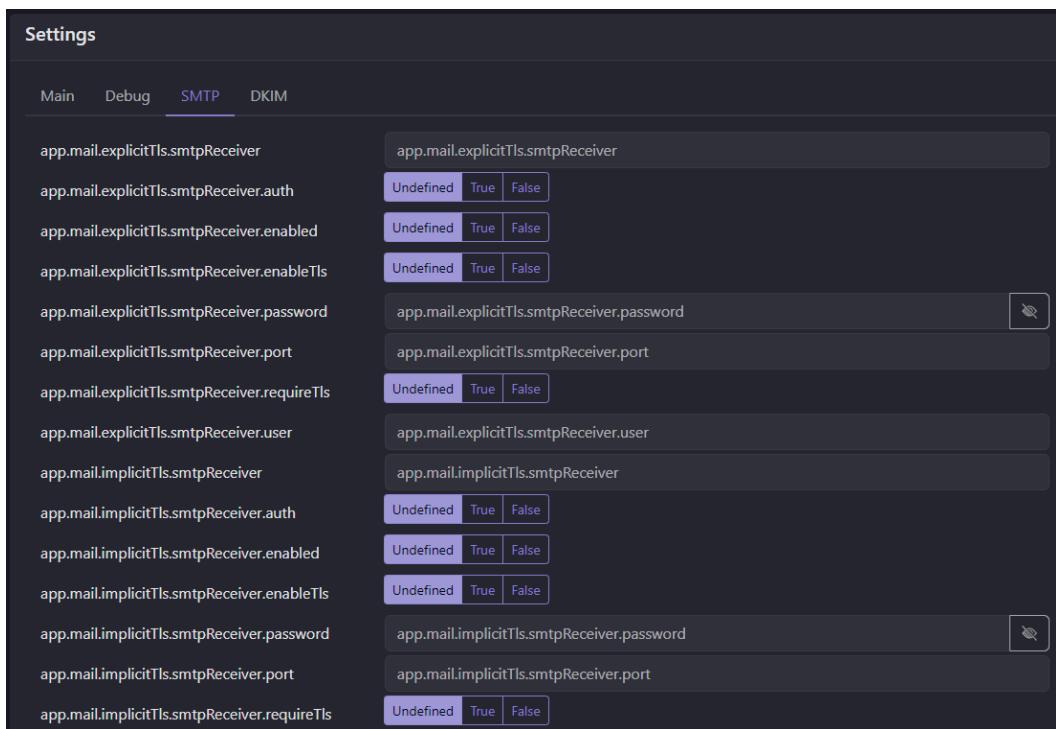


Figure 114: Settings - SMTP 1

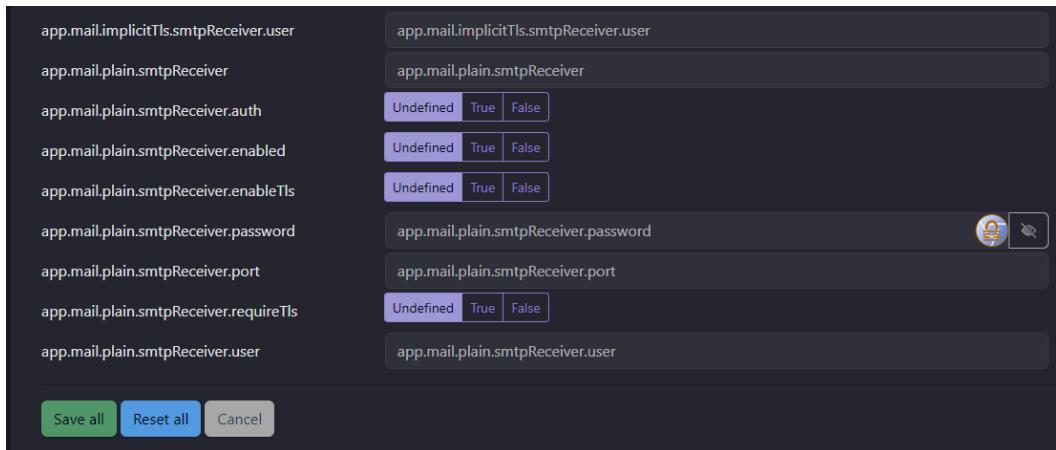


Figure 115: Settings - SMTP 2

#### 8.6.4 DKIM

In this section are the settings for 'DKIM'.

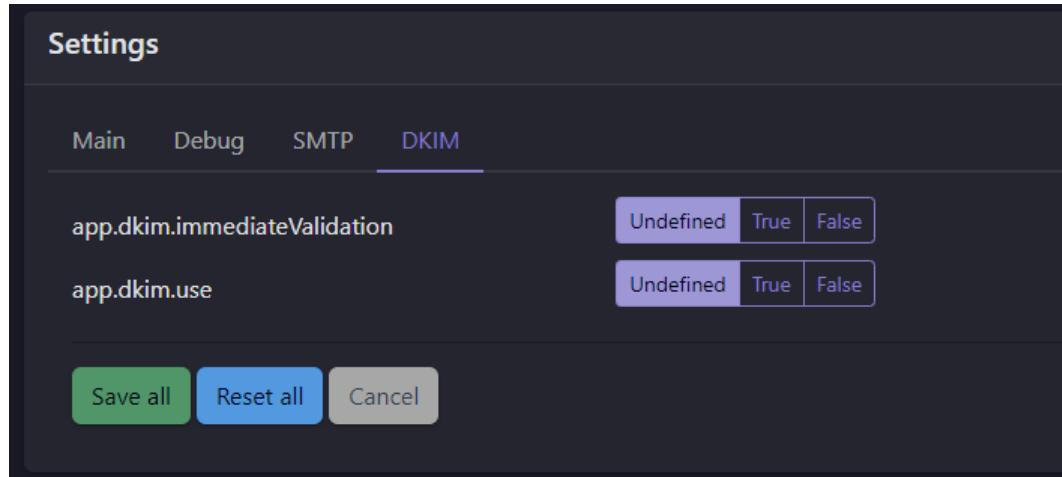


Figure 116: Settings - DKIM

## 8.7 Certificates

Certificates are managed in this part of the system.

### 8.7.1 Domail certificates

In the following picture 117 you can see the management of certificates that are uploaded to the Domail server and then can be used for processing.

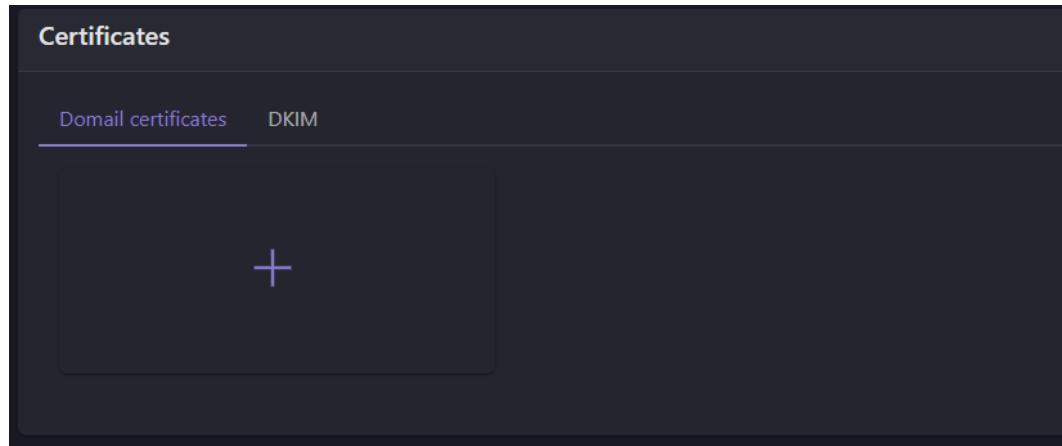


Figure 117: Certificates - Domail certificates

After clicking on the button '+', the window from the picture will be displayed 118.

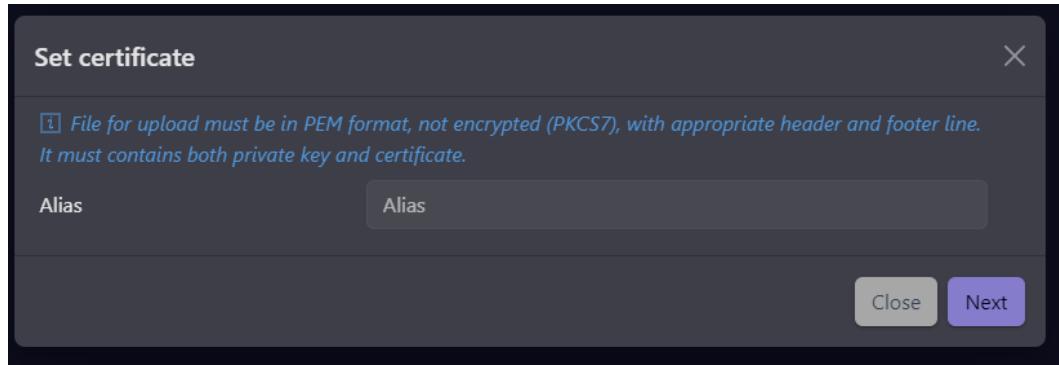


Figure 118: Certificates - Domail certificates - wizzard

After clicking on the button 'Next', a dialog will be displayed to read the certificate (file with the PEM attachment).

### 8.7.2 DKIM

What DKIM is for? It is a technology for increasing the trustworthiness of emails, which helps to detect spoofed messages. The sent message is signed by the SMTP server with the private key of the sender's domain. This signature is stored in the email header. The receiving server compares this signature with the public key stored in the domain's DNS records. By matching the signature, it is proven that the email actually originated from the sender's domain and was not modified during the transmission of the message.

In the following picture 119 you can see the management of DKIM certificates that are uploaded to the Domail server and then can be used for processing.

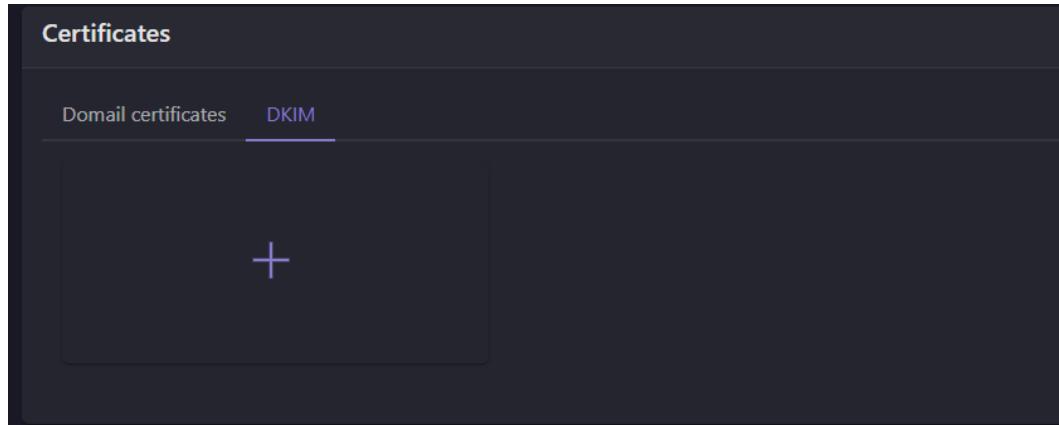


Figure 119: Certificates - DKIM

After clicking on the button '+', the window from the picture will be displayed 120.

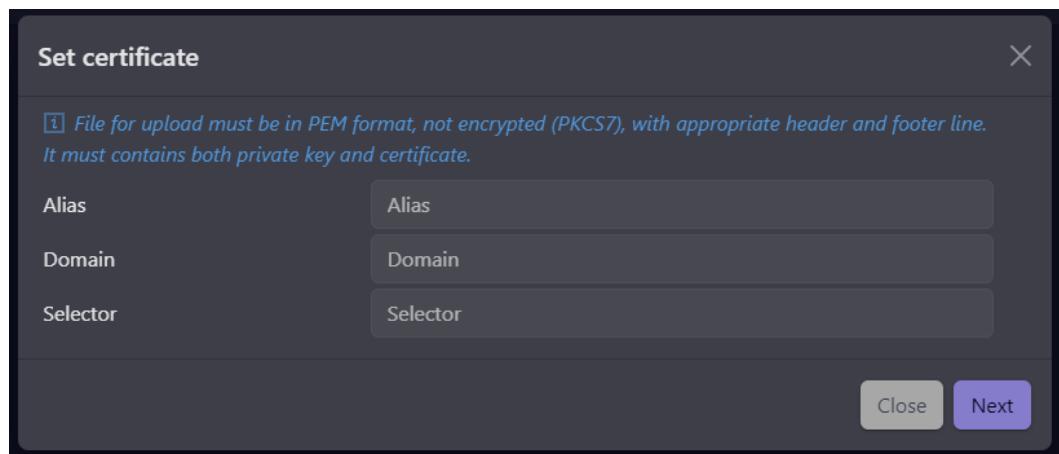


Figure 120: Certificates - DKIM - wizzard

After clicking on the button 'Next', a dialog will be displayed to read the DKIM certificate (file with the PEM attachment).

## Alphabetical Index

- ActiveMQ, 54
- Add new scenario, 36
- Administration, 51
  - Blacklist, 55
  - Certificates, 62
  - Monitoring, 54
  - Roles, 52
  - Settings, 57
  - Users, 51
  - Whitelist, 55
- Attachments, 45, 50
- Basic functionalities, 1
- Blacklist, 55
- Campaigns, 23
  - Add campaign, 23
  - Campaign detail, 23
    - General data, 24
    - History, 26
    - Source data, 24
- Certificates, 62
- Communication states, 17
- Communications, 15
  - Communication states, 17
  - Filter, 18
    - Address, 19
    - Header, 18
    - Log, 19
    - Tag, 19
  - Menu action
    - Export, 21
    - Reprocess, 21
- Resend, 19
- Conditions, 37
- Configuration, 35
  - Gallery, 50
    - Attachments, 50
    - Images, 50
  - Scenarios, 35
    - Add new scenario, 35
    - Edit, 35
  - Scripts, 46
    - Constants, 47
    - Create new script, 47
  - Templates, 38
    - Create new template, 39
    - Edit, 41
  - Constants, 47
  - CSV, 41
- Dashboard, 4
- Dashboard modes, 4
- Debug, 59
- Design, 44
- DKIM, 61, 63
- Domail, 1
- Domail system, 1
- Domail UI, 2
- Gallery, 50
- Header, 2
- Images, 46, 50
- JSON, 42
- Login page, 2
- Monitoring, 54
- New Role, 52
- Queues, 54
- Role detail, 53
- Roles, 52
- Scenarios, 35
- Scripts, 46
- Services, 54
- Settings, 57
- Sidebar, 3
- SMTP, 60
- Statistics, 27
  - Filter, 27
  - Group by, 27
    - Addresses, 33
    - Groups, 31
  - Runs, 28
  - Scenarios, 29
  - Tags, 32
- Template data, 41
- Templates, 38
- User detail, 51
- Users, 51
- Whitelist, 55